CONESTOGA-ROVERS & ASSOCIATES

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September 28, 2010 Reference No. 006029-50

Mr. Regan S. Williams
State Project Coordinator
Ohio EPA
Division of Emergency & Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087

Dear Mr. Williams:

Re: June 2010 Groundwater Monitoring Report
Summit National Superfund Site
Deerfield, Ohio

In accordance with the Consent Decree and Statement of Work (SOW) requirements for the Summit National Superfund Site (Site) in Deerfield, Ohio, the Summit National Facility Trust (SNFT) herewith submits two copies of the results of the June 2010 annual groundwater monitoring event at the Site, in accordance with the revised groundwater monitoring schedule provided in the April 2009 Groundwater Monitoring Report (Conestoga-Rovers & Associates [CRA], September 2, 2009), as amended in the responses to the Ohio Environmental Protection Agency (OEPA) January 6, 2010 comments (CRA, March 26, 2010). The groundwater sampling was conducted on June 2, 2010, and a full round of groundwater level measurements was obtained on the same day, prior to commencing the sampling program.

A. GROUNDWATER QUALITY MONITORING

As proposed in the April 2009 Groundwater Monitoring Report and the March 2010 responses to OEPA comments, the June 2010 groundwater sampling event included sampling of the following groundwater monitoring wells:

1. Water Table Unit (WTU) wells:
   - On-Site wells: MW-11, MW-107, MW-108, and MW-111
   - Off-Site downgradient wells: MW-4, MW-113, MW-114, and MW-115
2. Upper Intermediate Unit (UIU) wells:
   - On-Site wells: MW-207
   - Off-Site downgradient wells: MW-209, MW-220, and MW-224

The samples were analyzed by Accutest of Dayton, New Jersey, for the Site-Specific Indicator Parameter List (SSIPL) of compounds provided in **Table 1**.

Attachment A is a memorandum summarizing the groundwater monitoring field activities for the June 2010 groundwater monitoring event. Four of the eight WTU wells, and all four UIU wells, were purged dry. All wells recovered sufficiently for complete sample sets to be obtained. The fact that these wells purged dry is indicative that there is limited groundwater movement in these groundwater units.

Attachment B presents a summary of the analytical results for the detected compounds in the groundwater, surface water, and sediment samples collected in June 2010, as follows:

Tables in Attachment B	*Analytical Results*
Table B.1	WTU Monitoring Wells
Table B.2	UIU Monitoring Wells
Table B.3	Surface Water Samples
Table B.4	Sediment Sample
Table B.5	Rinse Blanks
Table B.6	Trip Blank

CRA's data quality assessment for the June 2010 analyses is included in **Attachment C.** The groundwater data was determined to be usable with the qualifications noted in **Attachment C**.

A summary of the SSIPL compounds (see **Table 1**) detected in the WTU and UIU groundwater samples for the sampling events conducted from 2004 to 2010 are presented on attached **Figures 1 and 2,** respectively. Trends in the WTU and UIU are discussed below.

WTU Trends – On-Site Wells:

The concentrations of SSIPL compounds are expected to fluctuate from year to year on Site. No order of magnitude SSIPL concentration changes were noted in on-Site monitoring wells MW-107, MW-108, MW-11, MW-111, and MW-113. There were some increasing and decreasing concentration changes in all the wells, but no significant changes outside of typical fluctuations were identified. The concentrations at MW-108 continue to show an increasing trend since the shutdown of the groundwater extraction system in 2005, consistent with the statistical trend evaluation provided in the 2009 groundwater monitoring report.

WTU Trends – Off-Site Wells:

SSIPL concentrations have remained non-detect at MW-4 and MW-114. Low concentrations of 1,1-DCA, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloroethene (1,2-DCE), and cis-1,2-Dichloroethene (cis-1,2-DCE) were detected in MW-115, but remain within the range of concentrations detected since 2004, and are lower than the concentrations reported in April 2009.

UIU Trends – On-Site Wells:

SSIPL concentrations in on-Site monitoring wells MW-207 and MW-224 continue to be non-detect.

UIU Trends – Off-Site Wells:

The only SSIPL compound detected in the off-Site wells was acetone at MW-209 and MW-220.

At MW-209, the concentration of acetone has fluctuated between 3.2 micrograms per liter (µg/L) and 18.8 µg/L over the period of 2004 to 2009. In April 2009, the concentration of acetone was 14.4 µg/L. The 9.6/9.1 µg/L of acetone (original/duplicate sample) in June 2010 is within the range of detections over the last 6 years.

At MW-220, the concentration of acetone has fluctuated between non-detect at a detection limit of 5.0 µg/L [ND(5.0)] and 23.5 µg/L over the period of 2004 to 2009. In April 2009, the concentration of acetone was ND(5.0). The 13.8 µg/L of acetone in June 2010 is within the range of detections over the last 6 years.

B. GROUNDWATER HYDRAULIC MONITORING

Groundwater levels in the WTU, UIU, Lower Intermediate Unit (LIU), and Upper Sharon Unit (USU) monitoring wells and piezometers at the Site were measured on June 2, 2010, and are presented in **Attachment D**. **Attachment D** (Table D.1) also includes the groundwater levels measured in the monitoring wells since 2004 (the year prior to shutdown of the groundwater extraction and treatment system). The groundwater hydraulic data was reduced to elevations and entered into a computer database as required by the SOW. Groundwater contours for the June 2010 groundwater hydraulic monitoring event are presented on figures in **Attachment D**.

The groundwater elevation contours for the June 2010 hydraulic monitoring demonstrate that the horizontal direction of groundwater flow is generally southeasterly in the WTU, as has been consistently observed in the past. The groundwater flow direction in the UIU bedrock unit appears to be in a generally easterly direction, and is consistent with the pre-shutdown groundwater flow direction in this unit.

C. SURFACE WATER AND SEDIMENT SAMPLING

The annual surface water and sediment samples were collected from the confluence of the south and east drainage ditches in June 2010. The analytical results of detected SSIPL compounds in the surface water samples are provided in Table B.3, and the results of the sediment sample are provided in Table B.4 of **Attachment B**.

No semi-volatile organic compounds (SVOCs) were detected in the surface water sample. The only volatile organic compounds (VOCs) detected in the surface water sample were cis-1,2-DCE at 0.28J µg/L, and acetone at 7.3/6.7 µg/L. The concentration of cis-1,2-DCE is lower than previous detects of cis-1,2-DCE at this location. Acetone has not previously been detected at this location.

No VOCs were detected in the sediment sample. Of the 11 SVOC compounds detected in the sediment sample, only one compound (Dimethyl phthalate) exceeded the 2004 (pre-shutdown) concentration.

At the time of sampling at the confluence of the south and east drainage ditches, the water levels in the ditches were high and no orange staining on the exposed banks of the ditches were evident.

The next annual surface water and sediment samples will be collected during the April 2011 sampling event.

D. DISCUSSION

Except for the expected increasing groundwater levels in the vicinity of the pipe and media drain after shutdown of the groundwater extraction system in August 2005, no significant changes in the groundwater flow patterns have been noted since the system shutdown. Groundwater concentrations in downgradient off-Site monitoring wells have remained either non-detect or similar to the concentrations detected since 2004 (baseline sampling event for the shutdown evaluation). The increasing concentration trend at on-Site monitoring well MW-108 was extensively evaluated in the 2009 groundwater monitoring report (CRA, September 2, 2009). The 2010 analytical data indicate that this trend is continuing. However, these parameters all appear to be well-contained inside the Site boundary.

The contingency actions outlined in the April 2009 Groundwater Monitoring Report (CRA, September 2, 2009), as amended in the responses to the OEPA January 6, 2010 comments (CRA, March 26, 2010) are as follows:

"If VOCs above their respective maximum contaminant level (MCL) are detected in the Sentinel wells (off-Site downgradient WTU monitoring wells MW-114 and MW-115), SNFT will evaluate options to mitigate the release (e.g., restart the groundwater extraction system, implement in-situ chemical oxidation (ISCO) to treat the released groundwater, phytoremediation, etc.). The Sentinel wells are located 70 to 80 feet south of the southern property boundary and wet well of the pipe and media drain. During pumping of groundwater from the pipe and media drain, the WTU zone of groundwater capture extends 100 to 200 feet south of the pipe and media drain at the wet well. In this case, off-Site downgradient WTU monitoring wells MW-116, MW-117 and MW-118 (approximately 230 feet south of the southern property boundary) will be used to verify whether there is any long term impact to the groundwater south of the Site and outside the influence of the pipe and media drain".

As the detected VOC concentrations at Sentinel wells MW-114 and MW-115 are below their MCLs, no contingency actions are required based on the June 2010 groundwater monitoring data, and therefore the groundwater extraction system will remain off pending the results of the April 2011 groundwater sampling event.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES, INC.

Steve Whillier

SW/rrw/Will-064
Encl.

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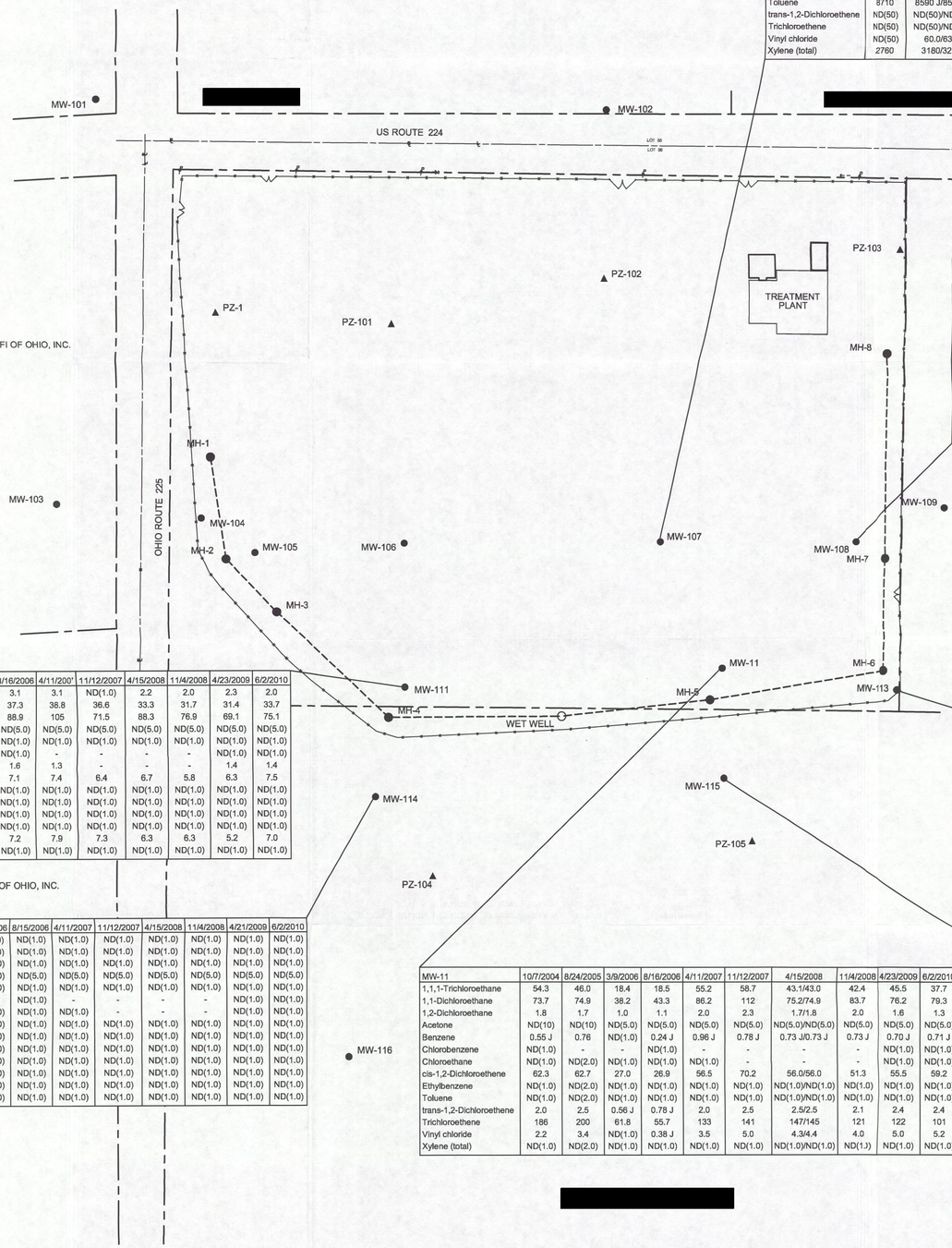
FIGURES



MW-107	10/7/2004	8/25/2005	3/8/2006	8/18/2006	11/12/2007	4/15/2008	11/4/2008	4/24/2009	6/2/2010
1,1,1-Trichloroethane	195	122/117	165	180/182	142	141	84.2	134	122
1,1-Dichloroethane	1200	1050/1040	1330	1430/1460	1530	1360	1030	1320	1600
1,2-Dichloroethane	265	247/240	223	244/246	326	273	271	291	219
Acetone	ND(500)	ND(250)/ND(250)	ND(500)	ND(50)/ND(50)	ND(250)	ND(250)	ND(100)	ND(250)	ND(50)
Benzene	76.2	73.0/71.4	86.5 J	105/108	88.0	104	67.3	97.8	110
Chlorobenzene	53.4	-	-	70.0/70.6	-	-	-	63.5	68.1
Chloroethane	ND(50)	ND(50)/ND(50)	ND(100)	13.9/13.6	-	-	-	ND(50)	ND(10)
cis-1,2-Dichloroethene	281	248/258	362	366/374	324	360	231	369	434
Ethylbenzene	830	971/991	1130	1390/1420	1150	1240	921	1230	1240
Toluene	8710	8590 J/8590 J	9950	11600/11400	7380	6810	2500	5370	5190
trans-1,2-Dichloroethene	ND(50)	ND(50)/ND(50)	ND(100)	ND(10)/4.3 J	ND(50)	ND(50)	ND(20)	ND(50)	ND(10)
Trichloroethene	ND(50)	ND(50)/ND(50)	ND(100)	6.2 J/6.4 J	ND(50)	ND(50)	4.2 J	ND(50)	6.7 J
Vinyl chloride	ND(50)	60.0/63.5	81.8 J	110/109	120	93.3	84.0	121	119
Xylene (total)	2760	3180/3230	3640	4920/4950	3810	3990	3110	4120	4090

MW-108	10/7/2004	8/24/2005	2/24/2006	8/17/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/23/2009	6/2/2010
1,1,1-Trichloroethane	3.0	2.5	2.4	6.0	8.0/8.5	5.8	8.5	5.7/5.7	8.8	6.7
1,1-Dichloroethane	50.7	44.7	41.3	87.2	116/119	148	180	165/164	213	244
1,2-Dichloroethane	59.4	52.0	34.6	61.1	67.8/70.5	87.5	75.5	89.1/90.2	68.9	67.7
Acetone	5.4 J	ND(5.0)	ND(5.0)	8.4	ND(5.0)/ND(5.0)	ND(5.0)	5.7	ND(5.0)/ND(5.0)	3.8 J	4.1 J
Benzene	10.7	9.4	10.4	24.4	31.6/31.4	35.5	63.5	45.7/45.7	77.2	86.9
Chlorobenzene	ND(1.0)	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	52.8	43.4	43.3	66.0	72.9/74.3	94.1	106	95.9/84.9	128	155
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	0.45 J	ND(1.0)/ND(1.0)	0.54 J	0.61 J
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	0.28 J	ND(1.0)/ND(1.0)	ND(1.0)	0.45 J	0.36 J/0.37 J	0.59 J	0.69 J
trans-1,2-Dichloroethene	2.0	ND(1.0)	1.8	3.2	2.4/2.3	2.7	3.8	3.2/3.3	4.2	5.0
Trichloroethene	10.8	8.9	8.4	14.5	16.4/16.5	16.0	24.6	21.2/21.3	30.1	30.8
Vinyl chloride	5.5	5.5	6.5	16.8	24.7/25.5	31.4	38.7	41.5/41.4	53.2	76.8
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)

MW-4	10/4/2004	8/22/2005	2/21/2006	8/14/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/21/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	ND(1.0)/ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-111	10/7/2004	8/24/2005	11/14/2005	2/24/2006	8/16/2006	4/11/200'	11/12/2007	4/15/2008	11/4/2008	4/23/2009	6/2/2010
1,1,1-Trichloroethane	5.6	1.6	1.4	1.2	3.1	3.1	ND(1.0)	2.2	2.0	2.3	2.0
1,1-Dichloroethane	47.1	19.3	20.1	17.0	37.3	38.8	36.6	33.3	31.7	31.4	33.7
1,2-Dichloroethane	144	35.1	32.5	22.9	88.9	105	71.5	88.3	76.9	69.1	75.1
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	0.34 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	1.6	ND(1.0)	ND(1.0)	1.1	1.6	1.3	-	-	-	1.4	1.4
cis-1,2-Dichloroethene	8.2	3.6	4.0	3.7	7.1	7.4	6.4	6.7	5.8	6.3	7.5
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	8.6	2.8	3.2	2.9	7.2	7.9	7.3	6.3	6.3	5.2	7.0
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-113	10/7/2004	8/24/2005	11/14/2005	2/24/2006	8/16/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/20/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	7.4	ND(5.0)	3.6 J
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-114	10/5/2004	8/23/2005	11/15/2005	2/28/2006	8/15/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/21/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	0.27 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-11	10/7/2004	8/24/2005	3/9/2006	8/16/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/23/2009	6/2/2010
1,1,1-Trichloroethane	54.3	46.0	18.4	18.5	55.2	58.7	43.1/43.0	42.4	45.5	37.7
1,1-Dichloroethane	73.7	74.9	38.2	43.3	86.2	112	75.2/74.9	83.7	76.2	79.3
1,2-Dichloroethane	1.8	1.7	1.0	1.1	2.0	2.3	1.7/1.8	2.0	1.6	1.3
Acetone	ND(10)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	0.55 J	0.76	ND(1.0)	0.24 J	0.96 J	0.78 J	0.73 J/0.73 J	0.73 J	0.70 J	0.71 J
Chlorobenzene	ND(1.0)	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	62.3	62.7	27.0	26.9	58.5	70.2	56.0/56.0	51.3	55.5	59.2
Ethylbenzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	2.0	2.5	0.56 J	0.78 J	2.0	2.5	2.5/2.5	2.1	2.4	2.4
Trichloroethene	186	200	61.8	55.7	133	141	147/145	121	122	101
Vinyl chloride	2.2	3.4	ND(1.0)	0.38 J	3.5	5.0	4.3/4.4	4.0	5.0	5.2
Xylene (total)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1J)	ND(1.0)	ND(1.0)

MW-115	10/5/2004	8/23/2005	11/15/2005	2/28/2006	8/15/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/21/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
1,1-Dichloroethane	1.3	2.0	1.5	1.3	1.1	1.6	2.0	1.7	1.7	2.5/1.8	1.9
1,2-Dichloroethane	ND(1.0)	0.77	0.44 J	0.41 J	ND(1.0)	ND(1.0)	ND(1.0)	0.48 J	0.56 J	ND(1.0)/ND(1.0)	0.44 J
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	-	ND(1.0)	-	-	-	-	ND(1.0)/ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)/ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	3.6	7.6	4.4	3.3	1.7	5.1	4.5	4.2	5.8	8.7/5.6	7.2
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)

0 35 70ft

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- PIPE AND MEDIA DRAIN
- LIGHT POLE
- POWER POLE
- MH-1 ACCESS MANHOLE
- WET WELL WET WELL
- MW-104 MONITORING WELL
- PZ-103 PIEZOMETER

WELL DESIGNATION — SAMPLING DATE

MW-203	10/7/2004	8/24/2005	3/2/2006	8/17/2006	4/23/2009
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
bis(2-Ethylhexyl)phthalate	ND(2.1)	-	-	ND(2.0)	ND(2.0)
Chloromethane (Methyl Chloride)	ND(1.0)	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

CHEMICAL CONCENTRATIONS IN µg/L

NOTE: ONLY DETECTED SSIPL COMPOUNDS SHOWN.

SSIPL = SITE SPECIFIC INDICATOR PARAMETER LIST

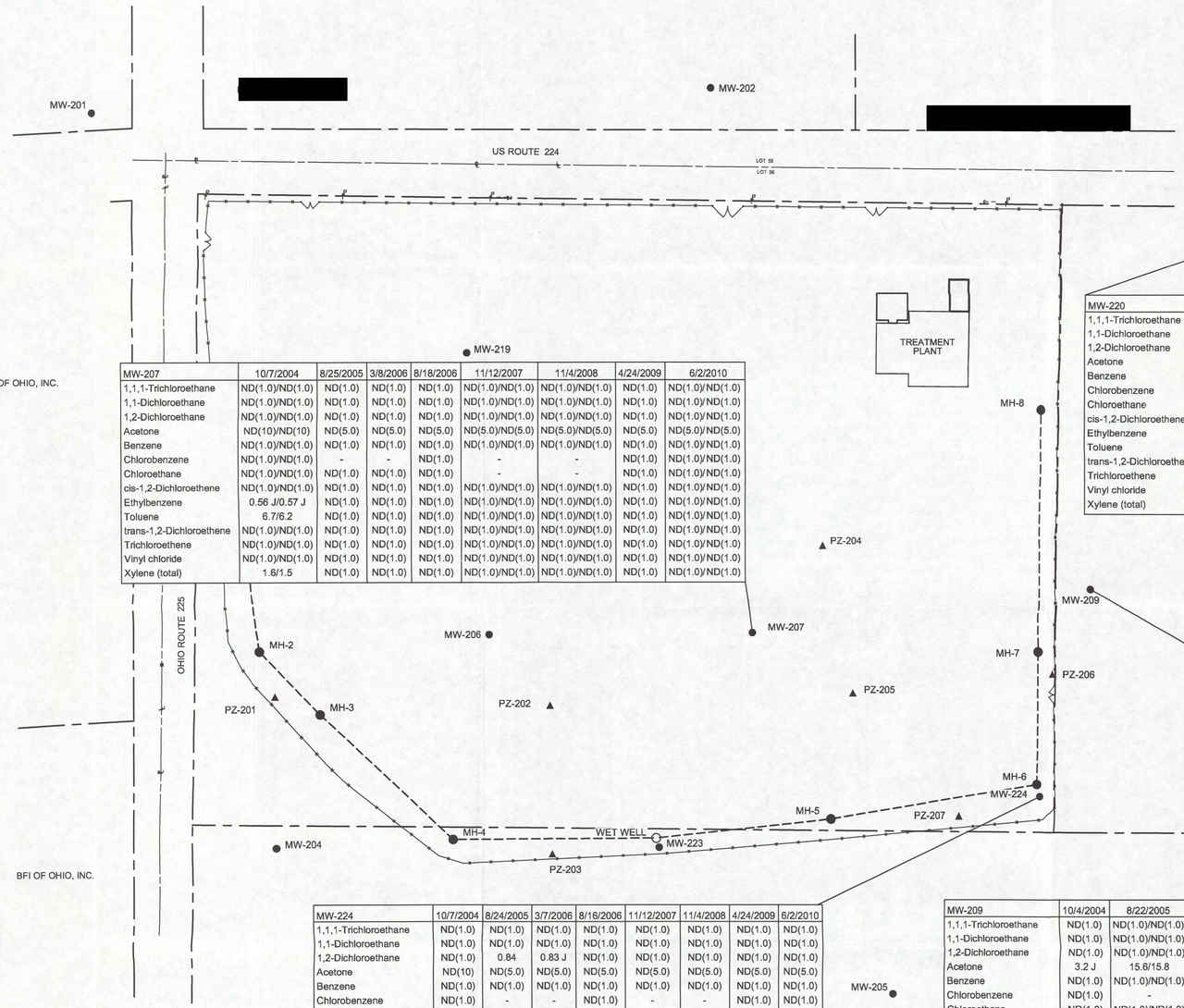
CONCENTRATION CODES

- J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
- - NOT ANALYZED
- ND NOT DETECTED
- ND( ) THE ANALYTE WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- µg/L MICROGRAMS PER LITER

figure 1

WATER TABLE UNIT
SHUTDOWN GROUNDWATER MONITORING (2004-2010)
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

06029-50(WILL064)GN-PX002 AUG 18/2010



MW-207	10/7/2004	8/25/2005	3/8/2006	8/18/2006	11/12/2007	11/4/2008	4/24/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
1,1-Dichloroethane	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
1,2-Dichloroethane	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Acetone	ND(10)/ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)/ND(5.0)	ND(5.0)	ND(5.0)/ND(5.0)
Benzene	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Chlorobenzene	ND(1.0)/ND(1.0)	-	-	ND(1.0)	-	-	ND(1.0)	ND(1.0)/ND(1.0)
Chloroethane	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	ND(1.0)	ND(1.0)/ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Ethylbenzene	0.56 J/0.57 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Toluene	6.7/6.2	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Trichloroethene	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Vinyl chloride	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Xylene (total)	1.6/1.5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)

MW-220	10/5/2004	8/23/2005	2/22/2006	8/14/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/21/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	19.7	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	23.5	12.8	ND(5.0)	13.8
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	0.30	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-224	10/7/2004	8/24/2005	3/7/2006	8/16/2006	11/12/2007	11/4/2008	4/24/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	0.84	0.83 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	-	-	ND(1.0)	-	-	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

MW-209	10/4/2004	8/22/2005	2/21/2006	8/14/2006	4/11/2007	11/12/2007	4/15/2008	11/4/2008	4/20/2009	6/2/2010
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Acetone	3.2 J	15.6/15.8	14.7	18.8	ND(5.0)	8.7	18.7	9.7	14.4	9.6/9.1
Benzene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Chlorobenzene	ND(1.0)	-	-	ND(1.0)	-	-	-	-	ND(1.0)	ND(1.0)/ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	-	-	-	ND(1.0)	ND(1.0)/ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Toluene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)/ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)/ND(1.0)

0 20 60ft

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- PIPE AND MEDIA DRAIN
- LIGHT POLE
- POWER POLE
- MH-1 ACCESS MANHOLE
- WET WELL WET WELL
- MW-104 MONITORING WELL
- PZ-103 PIEZOMETER

WELL DESIGNATION / SAMPLING DATE

MW-207	10/7/2004	8/24/2005	3/2/2006	8/17/2008	4/23/2009
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Acetone	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
bis(2-Ethylhexyl)phthalate	ND(2.1)	-	-	ND(2.0)	ND(2.0)
Chloromethane (Methyl Chloride)	ND(1.0)	-	-	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

CHEMICAL CONCENTRATIONS IN µg/L

NOTE: ONLY DETECTED SSIPL COMPOUNDS SHOWN.

SSIPL = SITE SPECIFIC INDICATOR PARAMETER LIST

CONCENTRATION CODES

J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
-	NOT ANALYZED
ND	NOT DETECTED
ND( )	THE ANALYTE WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
µg/L	MICROGRAMS PER LITER

figure 2

UPPER INTERMEDIATE UNIT
SHUTDOWN GROUNDWATER MONITORING (2004-2010)
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

06029-50(WILL064)GN-PX001 AUG 18/2010

TABLE

TABLE 1

SITE-SPECIFIC INDICATOR PARAMETER LIST (2010 – 2013)
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Acetone
Benzene
Chlorobenzene
Chloroethane
Ethylbenzene
Toluene
Trichloroethene
Vinyl Chloride
Xylenes, Total

ATTACHMENT A

GROUNDWATER MONITORING FIELD ACTIVITIES
SUMMARY JUNE 2010

CONESTOGA-ROVERS & ASSOCIATES

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

Sent via email

TO:	Stephen Whillier	REF. NO.:	006029-50
FROM:	David Tyran/adh/2 DST	DATE:	June 9, 2010

RE: Post Shutdown Hydraulic Monitoring and Groundwater Quality Monitoring
June 2010
Summit National Superfund Site
Deerfield Township of Portage County, Ohio

The following is a brief summary of the Site activities associated with the June 2010 round of groundwater sampling conducted on June 2, 2010 at the Summit National Superfund Site (Site) in Deerfield Township of Portage County, Ohio.

On-Site Personnel

Field activities were conducted by Conestoga-Rovers & Associates' (CRA's) Shawn Gardner and Dave Tyran.

Water Levels

A round of water level readings was taken from all on-Site and off-Site monitoring wells on June 2, 2010, using a Solinist electronic water level tape. The water level tape was decontaminated between water level measurements at each monitoring well. The decontamination sequence involved first rinsing the tape with potable water and final rinsing with deionized water.

Purging and Sampling of Monitoring Wells

During purging of all monitoring wells, readings of specific conductivity, temperature, and turbidity (dependent on field observations) were taken after the removal of each standing well volume. A summary of the well purge data is provided in Table 1. The quality of the evacuated water was also noted for color and clarity. All purge waters (approximately 140 gallons) from the monitoring wells were containerized in three steel 55-gallon drums for later disposal off Site.

Once the monitoring wells were purged, groundwater samples were collected for analyses of the Site-Specific Indicator Parameter List (SSIPL) for volatile organic compounds (VOCs).

All 12 monitoring wells were purged using either dedicated Waterra foot valves and tubing or an electric Grundfos submersible pump. The wells were sampled using a precleaned stainless steel bailer (as detailed below). Once purging of the monitoring well was completed, the tubing was removed from the well and

drained. The standing water within the well was allowed to settle so that a clear sample could be collected. After sampling of the well was completed, the tubing was placed back down the well.

As shown in Table 1, 8 out of the 12 wells were purged dry and then allowed to recover so a complete sample set could be taken. The remaining four wells had sufficient recharge to allow for stabilization by purging three or more volumes.

Collected samples were labeled and placed in a cooler and maintained cool with ice. The samples were shipped by Federal Express to Accutest Laboratories in Dayton, New Jersey, under Chain of Custody protocols.

Decontamination Procedures

Stainless steel bailers were cleaned between monitoring wells by using the following decontamination sequence:

i) Clean with brush in potable water and Alconox detergent
ii) Rinse thoroughly with potable water
iii) Rinse thoroughly with deionized water
iv) Allow the bailer to air dry on clean aluminum foil

Field Quality Assurance/Quality Control (QA/QC) Program

Field QA/QC samples collected during the June 2010 round of groundwater sampling included two blind field duplicates and two stainless steel bailer rinsate blanks. One matrix spike and matrix spike duplicate (MS/MSDs) was also collected. One trip blank was sent with the shipment of samples to the laboratory by placing all VOC samples in the same cooler with the trip blank.

Stainless steel bailer rinsate blanks were collected by pouring lab supplied deionized water into a precleaned bailer and then filling the sample containers.

Sediment Sample

A sediment sample was collected at the confluence of the south and east ditches. This sample was analyzed for VOCs and semi-volatile organic compounds (SVOCs). Due to extremely high water in the impoundment area - over 4 feet on the staff gauge - it was necessary to take the sediment sample close to the bank. This location is only several feet off of the southeast fence corner.

Surface Water

A surface water sample was collected at the confluence of the south and east ditches. This sample was obtained by attaching a clean amber jar to a telescoping pole and dipping the jar at the approximate confluence point and then pouring off the water into labeled sample jars. The sample was analyzed for VOCs and SVOCs.

Wastewater

At the conclusion of the sampling round, a wastewater composite sample was taken from the three drums of purge water for characterization prior to disposal.

TABLE 1

SUMMARY OF MONITORING WELL PURGE DATA
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO
JUNE 2010

Well I.D.	*Date Purged/ Sampled*	*Well Volume (Gallons)*	*Purged Volume (Gallons)*	*Time*	*Conductivity (ms/cm)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purge/Sampling Method*	*Comments*
MW-4	06/02/10	11.8	11.8	11:42	3.35	6.50	13.19	14.9	Clear, colorless	Grundfos/SS bailer	Well dry @ 1 volume
	06/02/10		Sample	18:00					Clear, colorless	for all parameters	
MW-11	06/02/10	2.8	2.8	12:35	3.17	6 13	11.36	3.4	Clear, colorless	Waterra/SS bailer	Good recharge
			5 6	12:38	2.83	6.31	11.28	1.1	Clear, colorless	for all parameters	
			8 4	12:41	2.74	6.34	11.16	4.5	Clear, colorless		
			11.2	12:44	2.67	6 33	10.99	0 5	Clear, colorless		
			Sample	17:50					Clear, colorless		
MW-107	06/02/10	3.4	3.4	14:56	3.39	6.51	12.47	24.1	Clear, colorless, strong chemical odor	Waterra/SS bailer	Good recharge
			6.8	14:59	3.39	6.63	12.04	5.5	Clear, colorless, strong chemical odor	for all parameters	
			10.2	15:02	3.39	6.75	12.51	7.1	Clear, colorless, strong chemical odor		
			Sample	16:30					Clear, colorless, strong chemical odor		
MW-108	06/02/10	2.1	2.1	12:03	2.22	6.76	12.31	96.2	Slightly cloudy, light brown	Waterra/SS bailer	Well dry @ 8.1 gallons
			4.2	12:05	2.38	6.55	10.20	82.6	Slightly cloudy, light brown	for all parameters	
			6.3	12:07	2.45	6.51	10.10	56.7	Slightly cloudy, light brown		
			Sample	16:20					Slightly cloudy, light brown		
MW-111	06/02/10	2.6	2.6	12:20	4.33	5.95	12.28	12 3	Clear, colorless, light brown tint	Waterra/SS bailer	Good recharge
			5.2	12:22	4.36	5.87	11.79	1.0	Clear, colorless, light brown tint	for all parameters	
			7.8	12:24	4.34	5.84	12.30	1.9	Clear, colorless, light brown tint		
			Sample	17:20					Clear, colorless, light brown tint		
MW-113	06/02/10	1.9	1.9	11:54	4.07	6.94	12.57	115.2	Cloudy, dark gray	Waterra/SS bailer	Well dry @ 3.5 gallons
			Sample	17:30					Clear, colorless		
MW-114	06/02/10	2.2	2.2	10:48	2.89	6.48	10.84	52.6	Slightly cloudy, red brown	Waterra/SS bailer	Well dry @ 3.8 gallons
			Sample	17:40					Slightly cloudy, light brown	for all parameters	

TABLE 1

SUMMARY OF MONITORING WELL PURGE DATA
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO
JUNE 2010

Well I.D.	*Date Purged/ Sampled*	*Well Volume (Gallons)*	*Purged Volume (Gallons)*	*Time*	*Conductivity (ms/cm)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purge/Sampling Method*	*Comments*
MW-115	06/02/10	3.9	3.9	10:30	2.57	6.02	13.07	1.7	Clear, colorless	Grundfos/SS bailer for all parameters	Good recharge
			7.8	10:32	2.58	6.04	12.91	0.5	Clear, colorless		
			11.7	10:33	2 57	6.05	12.76	0.2	Clear, colorless		
			Sample	18:10					Clear, light brown tint		
MW-207	06/02/10	6.3	6.3	14:44	3.78	6.92	12.37	44.9	Clear, colorless	Grundfos/SS bailer for all parameters	Well dry @ 14 gallons
			12.6	14:46	3 81	6.42	12.03	150.2	Cloudy gray		
			Sample	18:20					Clear, colorless		
MW-209	06/02/10	5.2	5.2	11:27	3.78	6.26	12.02	22.7	Clear, colorless	Grundfos/SS bailer	Well dry @ 8.3 gallons
			Sample	16:40					Clear, colorless		
MW-220	06/02/10	5.0	5.0	11:06	4.20	6 83	12.16	1.2	Clear, colorless	Grundfos/SS bailer	Well dry @ 8.1 gallons
			Sample	15:50					Clear, colorless		
MW-224	06/02/10	4.0	4.0	13:34	3.70	6.90	12.95	3.9	Clear, colorless	Grundfos/SS bailer for all parameters	Well dry @ 14.2 gallons
			8.0	13:36	3.69	6.91	11.98	2.7	Clear, colorless		
			12.0	13:37	3.68	6.89	12.27	3.2	Clear, colorless		
			Sample	16:10					Clear, colorless		
Surface Water	06/02/10		Sample	18:05	0.49	8.48	22.14	232	Cloudy brown		Confluence of south and east ditches

Notes:
NM - Not measured
SS - Stainless Steel.

ATTACHMENT B

ANALYTICAL DATA SUMMARY

TABLE B.1

ANALYTICAL DATA SUMMARY
WTU MONITORING WELLS
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*MW-4*	*MW-11*	*MW-107*	*MW-108*	*MW-111*	*MW-113*	*MW-114*	*MW-115*
Sample ID	*WG-6029-060210-012*	*WG-6029-060210-011*	*WG-6029-060210-004*	*WG-6029-060210-003*	*WG-6029-060210-008*	*WG-6029-060210-010*	*WG-6029-060210-007*	*WG-6029-060210-014*
Sample Date	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*
Volatile Organic Compounds (µg/L)								
1,1,1-Trichloroethane	ND(1.0)	37.7	122	6.7	2 0	ND(1 0)	ND(1 0)	ND(1 0)
1,1-Dichloroethane	ND(1 0)	79 3	1,600	244	33 7	ND(1 0)	ND(1 0)	1.9
1,2-Dichloroethane	ND(1 0)	1 3	219	67.7	75.1	ND(1.0)	ND(1 0)	0 44 J
Acetone	ND(5 0)	ND(5 0)	ND(50)	4 1 J	ND(5 0)	3 6 J	ND(5 0)	ND(5.0)
Benzene	ND(1 0)	0 71 J	110	86 9	ND(1 0)	ND(1 0)	ND(1 0)	ND(1 0)
Chlorobenzene	ND(1 0)	ND(1.0)	68 1	ND(1 0)	ND(1 0)	ND(1 0)	ND(1 0)	ND(1 0)
Chloroethane	ND(1 0)	ND(1 0)	ND(10)	ND(1 0)	1 4	ND(1.0)	ND(1 0)	ND(1 0)
cis-1,2-Dichloroethene	ND(1 0)	59 2	434	155	7 5	ND(1 0)	ND(1 0)	7 2
Ethylbenzene	ND(1.0)	ND(1.0)	1,240	0 61 J	ND(1 0)	ND(1 0)	ND(1 0)	ND(1 0)
Toluene	ND(1 0)	ND(1 0)	5,190	0.69 J	ND(1 0)	ND(1.0)	ND(1 0)	ND(1 0)
trans-1,2-Dichloroethene	ND(1 0)	2 4	ND(10)	5 0	ND(1 0)	ND(1.0)	ND(1 0)	ND(1.0)
Trichloroethene	ND(1 0)	101	6 7 J	30 8	ND(1 0)	ND(1 0)	ND(1 0)	ND(1 0)
Vinyl chloride	ND(1.0)	5 2	119	76 8	7.0	ND(1 0)	ND(1 0)	ND(1 0)
Xylene (total)	ND(1.0)	ND(1.0)	4,090	ND(1 0)	ND(1 0)	ND(1.0)	ND(1 0)	ND(1.0)

Notes
µg/L = micrograms per liter
ND ( ) - Not present at or above the associated value
J - Estimated concentration

TABLE B.2

ANALYTICAL DATA SUMMARY
UIU MONITORING WELLS
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*MW-207*	*MW-207*	*MW-209*	*MW-209*	*MW-220*	*MW-224*
Sample ID	*WG-6029-060210-015*	*WG-6029-060210-016*	*WG-6029-060210-005*	*WG-6029-060210-006*	*WG-6029-060210-001*	*WG-6029-060210-002*
Sample Date	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*	*6/2/2010*
Sample Type		*Duplicate*		*Duplicate*		
Volatile Organic Compounds (µg/L)						
1,1,1-Trichloroethane	ND(1 0)	ND(1 0)	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1 0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)
Acetone	ND(5 0)	ND(5.0)	9.6	9.1	13 8	ND(5.0)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1 0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)	ND(1 0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1 0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1 0)
Vinyl chloride	ND(1 0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Notes
µg/L = micrograms per liter
ND ( ) - Not present at or above the associated value

TABLE B.3

ANALYTICAL DATA SUMMARY
SURFACE WATER SAMPLE
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*S&E Ditches Surface Water*	*S&E Ditches Surface Water*
Sample ID	*WS-6029-060210-017*	*WS-6029-060210-018*
Sample Date	*6/2/2010*	*6/2/2010*
Sample Type		*Duplicate*
Semi-Volatile Organic Compounds (µg/L)		
1,2,4-Trichlorobenzene	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ND(2.0)	ND(2.0)
2,4,5-Trichlorophenol	ND(5.0)	ND(5.0)UJ
2,4,6-Trichlorophenol	ND(5.0)	ND(5.0)UJ
2,4-Dichlorophenol	ND(5.0)	ND(5.0)UJ
2,4-Dimethylphenol	ND(5.0)	ND(5.0)UJ
2,4-Dinitrophenol	ND(20)	ND(20)UJ
2,4-Dinitrotoluene	ND(2.0)	ND(2.0)
2,6-Dinitrotoluene	ND(2.0)	ND(2.0)
2-Chloronaphthalene	ND(2.0)	ND(2.0)
2-Chlorophenol	ND(5.0)	ND(5.0)UJ
2-Methylnaphthalene	ND(1.0)	ND(1.0)
2-Methylphenol	ND(2.0)	ND(2.0)UJ
2-Nitroaniline	ND(5.0)	ND(5.0)
2-Nitrophenol	ND(5.0)	ND(5.0)UJ
3&4-Methylphenol	ND(2.0)	ND(2.0)UJ
3,3'-Dichlorobenzidine	ND(5.0)	ND(5.0)
3-Nitroaniline	ND(5.0)	ND(5.0)
4,6-Dinitro-2-methylphenol	ND(20)UJ	ND(20)UJ
4-Bromophenyl phenyl ether	ND(2.0)	ND(2.0)
4-Chloro-3-methylphenol	ND(5.0)	ND(5.0)UJ
4-Chloroaniline	ND(5.0)	ND(5.0)
4-Chlorophenyl phenyl ether	ND(2.0)	ND(2.0)
4-Nitroaniline	ND(5.0)	ND(5.0)
4-Nitrophenol	ND(10)	ND(10)UJ
Acenaphthene	ND(1.0)	ND(1.0)
Acenaphthylene	ND(1.0)	ND(1.0)
Anthracene	ND(1.0)	ND(1.0)
Benzo(a)anthracene	ND(1.0)	ND(1.0)
Benzo(a)pyrene	ND(1.0)	ND(1.0)
Benzo(b)fluoranthene	ND(1.0)	ND(1.0)
Benzo(g,h,i)perylene	ND(1.0)	ND(1.0)
Benzo(k)fluoranthene	ND(1.0)	ND(1.0)
bis(2-Chloroethoxy)methane	ND(2.0)	ND(2.0)
bis(2-Chloroethyl)ether	ND(2.0)	ND(2.0)
bis(2-Ethylhexyl)phthalate	ND(2.0)	ND(2.0)
Butyl benzylphthalate	ND(2.0)	ND(2.0)
Carbazole	ND(1.0)	ND(1.0)
Chrysene	ND(1.0)	ND(1.0)
Dibenz(a,h)anthracene	ND(1.0)	ND(1.0)
Dibenzofuran	ND(5.0)	ND(5.0)
Diethyl phthalate	ND(2.0)	ND(2.0)
Dimethyl phthalate	ND(2.0)	ND(2.0)
Di-n-butylphthalate	ND(2.0)	ND(2.0)
Di-n-octyl phthalate	ND(2.0)	ND(2.0)
Fluoranthene	ND(1.0)	ND(1.0)
Fluorene	ND(1.0)	ND(1.0)
Hexachlorobenzene	ND(1.0)	ND(1.0)
Hexachlorobutadiene	ND(1.0)	ND(1.0)
Hexachlorocyclopentadiene	ND(20)	ND(20)

TABLE B.3

ANALYTICAL DATA SUMMARY
SURFACE WATER SAMPLE
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*S&E Ditches Surface Water*	*S&E Ditches Surface Water*
Sample ID	*WS-6029-060210-017*	*WS-6029-060210-018*
Sample Date	*6/2/2010*	*6/2/2010*
Sample Type		*Duplicate*
Semi-Volatile Organic Compounds (µg/L) (cont'd)		
Hexachloroethane	ND(2.0)	ND(2.0)
Indeno(1,2,3-cd)pyrene	ND(1.0)	ND(1.0)
Isophorone	ND(2.0)	ND(2.0)
Naphthalene	ND(1.0)	ND(1.0)
Nitrobenzene	ND(2.0)	ND(2.0)
N-Nitrosodi-n-propylamine	ND(2.0)	ND(2.0)
N-Nitrosodiphenylamine	ND(5.0)	ND(5.0)
Pentachlorophenol	ND(10)UJ	ND(10)UJ
Phenanthrene	ND(1.0)	ND(1.0)
Phenol	ND(2.0)	ND(2.0)UJ
Pyrene	ND(1.0)	ND(1.0)
Volatile Organic Compounds (µg/L)		
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)
1,2-Dichloroethene (total)	ND(1.0)	0.28 J
1,2-Dichloropropane	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(5.0)	ND(5.0)
2-Hexanone	ND(5.0)	ND(5.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(5.0)	ND(5.0)
Acetone	7.3	6.7
Benzene	ND(1.0)	ND(1.0)
Bromodichloromethane	ND(1.0)	ND(1.0)
Bromoform	ND(4.0)	ND(4.0)
Bromomethane (Methyl Bromide)	ND(2.0)	ND(2.0)
Carbon disulfide	ND(2.0)	ND(2.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	0.28 J
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)
Methylene chloride	ND(2.0)	ND(2.0)
Styrene	ND(5.0)	ND(5.0)
Tetrachloroethene	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)

Notes
µg/L = micrograms per liter
ND ( ) - Not present at or above the associated value
J - Estimated concentration
UJ - Estimated reporting limit

TABLE B.4

ANALYTICAL DATA SUMMARY
SEDIMENT SAMPLE
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

	Sample Location	*S&E Ditches Sediment*
	Sample ID	*SE-6029-060210-019*
	Sample Date	*6/2/2010*
Semi-Volatile Organic Compounds (µg/kg)		
1,2,4-Trichlorobenzene		ND(110)
1,2-Dichlorobenzene		ND(110)
1,3-Dichlorobenzene		ND(110)
1,4-Dichlorobenzene		ND(110)
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)		ND(110)
2,4,5-Trichlorophenol		ND(270)
2,4,6-Trichlorophenol		ND(270)
2,4-Dichlorophenol		ND(270)
2,4-Dimethylphenol		ND(270)
2,4-Dinitrophenol		ND(1,100)
2,4-Dinitrotoluene		ND(110)
2,6-Dinitrotoluene		ND(110)
2-Chloronaphthalene		ND(110)
2-Chlorophenol		ND(270)
2-Methylnaphthalene		55.4 J
2-Methylphenol		ND(110)
2-Nitroaniline		ND(270)
2-Nitrophenol		ND(270)
3&4-Methylphenol		ND(110)
3,3'-Dichlorobenzidine		ND(270)
3-Nitroaniline		ND(270)
4,6-Dinitro-2-methylphenol		ND(1,100)
4-Bromophenyl phenyl ether		ND(110)
4-Chloro-3-methylphenol		ND(270)
4-Chloroaniline		ND(270)
4-Chlorophenyl phenyl ether		ND(110)
4-Nitroaniline		ND(270)
4-Nitrophenol		ND(550)
Acenaphthene		ND(55)
Acenaphthylene		ND(55)
Anthracene		ND(55)
Benzo(a)anthracene		26.1 J
Benzo(a)pyrene		23.6 J
Benzo(b)fluoranthene		35.3 J
Benzo(g,h,i)perylene		34.2 J
Benzo(k)fluoranthene		ND(55)
bis(2-Chloroethoxy)methane		ND(110)
bis(2-Chloroethyl)ether		ND(110)
bis(2-Ethylhexyl)phthalate		ND(110)
Butyl benzylphthalate		ND(110)
Carbazole		ND(110)
Chrysene		32.2 J
Dibenz(a,h)anthracene		ND(55)
Dibenzofuran		ND(110)
Diethyl phthalate		ND(110)
Dimethyl phthalate		312
Di-n-butylphthalate		ND(110)
Di-n-octyl phthalate		ND(110)
Fluoranthene		42 1 J
Fluorene		ND(55)
Hexachlorobenzene		ND(110)
Hexachlorobutadiene		ND(55)
Hexachlorocyclopentadiene		ND(1,100)
Hexachloroethane		ND(270)
Indeno(1,2,3-cd)pyrene		ND(55)

TABLE B.4

ANALYTICAL DATA SUMMARY
SEDIMENT SAMPLE
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

	Sample Location	*S&E Ditches Sediment*
	Sample ID	*SE-6029-060210-019*
	Sample Date	*6/2/2010*
Semi-Volatile Organic Compounds (µg/kg) (cont'd)		
Isophorone		ND(110)
Naphthalene		33.2 J
Nitrobenzene		ND(110)
N-Nitrosodi-n-propylamine		ND(110)
N-Nitrosodiphenylamine		ND(270)
Pentachlorophenol		ND(550)
Phenanthrene		58.4
Phenol		ND(110)
Pyrene		48.4 J
Volatile Organic Compounds (µg/kg)		
1,1,1-Trichloroethane		ND(11)
1,1,2,2-Tetrachloroethane		ND(11)
1,1,2-Trichloroethane		ND(11)
1,1-Dichloroethane		ND(11)
1,1-Dichloroethene		ND(11)
1,2-Dichloroethane		ND(2 1)
1,2-Dichloroethene (total)		ND(11)
1,2-Dichloropropane		ND(11)
2-Butanone (Methyl Ethyl Ketone)		ND(21)
2-Hexanone		ND(11)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)		ND(11)
Acetone		ND(21)
Benzene		ND(2 1)
Bromodichloromethane		ND(11)
Bromoform		ND(11)
Bromomethane (Methyl Bromide)		ND(11)
Carbon disulfide		ND(11)
Carbon tetrachloride		ND(11)
Chlorobenzene		ND(11)
Chloroethane		ND(11)
Chloroform (Trichloromethane)		ND(11)
Chloromethane (Methyl Chloride)		ND(11)
cis-1,2-Dichloroethene		ND(11)
cis-1,3-Dichloropropene		ND(11)
Dibromochloromethane		ND(11)
Ethylbenzene		ND(2.1)
Methylene chloride		ND(11)
Styrene		ND(11)
Tetrachloroethene		ND(11)
Toluene		ND(2.1)
trans-1,2-Dichloroethene		ND(11)
trans-1,3-Dichloropropene		ND(11)
Trichloroethene		ND(11)
Vinyl chloride		ND(11)
Xylene (total)		ND(4 3)
General Chemistry		
Total solids		52.1%

Notes
µg/kg = micrograms per kilogram
ND ( ) - Not present at or above the associated value
J - Estimated concentration

TABLE B.5

ANALYTICAL DATA SUMMARY
RINSE BLANKS
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*Rinse Blank*	*Rinse Blank*
Sample ID	*RB-6029-060210-009*	*RB-6029-060210-013*
Sample Date	*6/2/2010*	*6/2/2010*
Volatile Organic Compounds (µg/L)		
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)
1,2-Dichloroethene (total)	ND(1.0)	ND(1.0)
Acetone	ND(5.0)	ND(5.0)
Benzene	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)
Xylene (total)	ND(1.0)	ND(1.0)

Notes:
µg/L = micrograms per liter
ND ( ) - Not present at or above the associated value

TABLE B.6

ANALYTICAL DATA SUMMARY
TRIP BLANK
JUNE 2010 GROUNDWATER MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	*Trip Blank*
Sample ID	*TB-6029-060210*
Sample Date	*6/2/2010*
Volatile Organic Compounds (µg/L)	
1,1,1-Trichloroethane	ND(1.0)
1,1-Dichloroethane	ND(1.0)
1,2-Dichloroethane	ND(1.0)
1,2-Dichloroethene (total)	ND(1.0)
Acetone	ND(5.0)
Benzene	ND(1.0)
Chlorobenzene	ND(1.0)
Chloroethane	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)
Ethylbenzene	ND(1.0)
Toluene	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)
Trichloroethene	ND(1.0)
Vinyl chloride	ND(1.0)
Xylene (total)	ND(1.0)

Notes:
µg/L = micrograms per liter
ND ( ) - Not present at or above the associated value

ATTACHMENT C

DATA QUALITY ASSESSMENT

CONESTOGA-ROVERS & ASSOCIATES

8615 W. Bryn Mawr Avenue, Chicago, Illinois 60631
Telephone: (773) 380-9933 Fax: (773) 380-6421
www.CRAworld.com

MEMORANDUM

TO:	Steve Whillier	REF. NO.:	006029-50
FROM:	Nancy Bergstrom/ko/36 S. Day for	DATE:	July 19, 2010
C.C.:	Steve Day Eric Mannlein		
RE:	**Data Quality Assessment and Validation** **June 2010 Annual Monitoring Event** **Summit National Superfund Site** **Deerfield Township, Portage County, Ohio**		

The following summarizes the results of the data quality assessment and validation conducted for the samples collected during June 2010 at the Summit National Superfund Site in Deerfield Township, Portage County, Ohio (Site). The samples identified in Table 1 were selectively analyzed for Site-specific indicator parameter list (SSIPL) and target compound list (TCL) volatile organic compounds (VOCs) and TCL semivolatile organic compounds (SVOCs) by Accutest Laboratories, Inc. of Dayton, New Jersey. The methods of analysis are identified in Table 2. The data quality evaluation criteria were established by the Site-specific quality assurance project plan (QAPP).[1]

Sample Receipt and Holding Time Period Compliance

All samples were received by the laboratory intact, properly preserved, within the proper temperature range, and with the required chain-of-custody documentation. However, sample WG-6029-060210-018 was re-extracted for SVOC analysis after the holding time period had expired because the laboratory suspected the acid-extractable surrogate compounds had not been added to the sample prior to the original extraction. Although the SVOC results reported for the re-extracted sample were the same as the original SVOC results and the acid-extractable surrogates compounds exhibited acceptable recoveries, the acid-extractable SVOC results reported for the sample were qualified as estimated for holding time period compliance violation. All remaining samples were prepared and analyzed within the holding time periods specified in the QAPP.

Method Blank Sample Data

Method blank sample data were evaluated to verify that analytes detected in investigative samples were not attributable to laboratory conditions or procedures. Target analytes were not detected in the method blank samples.

[1]Application of data quality evaluation criteria was consistent with the relevant criteria in "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

Surrogate Compounds Data

Method performance on individual samples was evaluated by the percent recovery data from surrogate compounds spiked into each sample prior to preparation and analysis. The acid-extractable surrogate compounds were not recovered from the original SVOC analysis of sample WG-6029-060210-018. The analysis of a re-extraction of the sample yielded acceptable surrogate compounds percent recovery data, but the sample was re-extracted after the holding time period had expired. The acid-extractable SVOC results reported for this sample were qualified as estimated for holding time period compliance violation, and additional data qualification was not required. The surrogate compounds percent recovery acceptance criteria was achieved for the remaining samples.

Blank Spike Sample Analyses

Analytical accuracy was evaluated by the percent recovery data from blank spike sample analyses. The blank spike percent recovery data were acceptable for all analytes.

Matrix Spike/Matrix Spike Duplicate Sample Analyses

Accuracy and precision relative to the sample matrices were evaluated by percent recovery and RPD data from matrix spike/matrix spike duplicate (MS/MSD) sample analyses. The 4,6-dinitro-2-methylphenol and pentachlorophenol percent recovery data reported for MS/MSD sample WG-6029-060210-017 failed to achieve the acceptance the criteria. The qualified associated investigative sample data are presented in Table 3. The remaining percent recovery and RPD data were acceptable for project-related MS/MSD samples or investigative sample data associated with outlying MS/MSD data did not require qualification.

Sample Quantitation

VOC and SVOC results reported at concentrations less than their sample-specific reporting limits but greater than or equal to their respective method detection limits were flagged by the laboratory with the "J" qualifier. Results flagged as such are estimated concentrations, and the data validation "J" qualifier was applied to these results during the data validation process.

Field Quality Assurance/Quality Control

Field quality assurance measures included the analysis of equipment rinse blank, field duplicate, and trip blank samples.

The effectiveness of the field decontamination procedure was evaluated by the data from the analysis of equipment rinsate blank samples. Target analytes were not detected in the equipment rinse blank samples, indicating the decontamination procedure was effective.

Overall precision of the sampling and analysis event was evaluated by the data from the analyses of field duplicate samples that were submitted blindly to the laboratory. Table 4 summarizes the results of, and RPDs calculated for, analytes detected in the investigative and field duplicate samples. The RPD data indicate overall precision was acceptable.

A trip blank sample was included in the shipping cooler containing investigative aqueous samples being submitted for VOC analysis to monitor for sample cross-contamination by VOCs during sample shipping and storage. VOCs were not detected in the trip blank sample.

Completeness

The objective for completeness, which is defined in the QAPP as the total number of usable sample results versus the total possible number of sample results, was required to be at least 95%. All investigative sample results were usable, and the completeness objective was attained.

Overall Assessment

The data are suitable for their intended purpose with the qualifications presented herein.

TABLE 1

SAMPLE IDENTIFICATION AND LOCATION SUMMARY
JUNE 2010 ANNUAL MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

Sample ID	*Location*
WG-6029-060210-001	MW-220
WG-6029-060210-002	MW-224
WG-6029-060210-003	MW-108
WG-6029-060210-004	MW-107
WG-6029-060210-005	MW-209
WG-6029-060210-006	MW-209 (Dupl.)
WG-6029-060210-007	MW-114
WG-6029-060210-008	MW-111
RB-6029-060210-009	Equipment Rinse Blank
WG-6029-060210-010	MW-113
WG-6029-060210-011	MW-11
WG-6029-060210-012	MW-4
RB-6029-060210-013	Equipment Rinse Blank
WG-6029-060210-014	MW-115
WG-6029-060210-015	MW-207
WG-6029-060210-016	MW-207 (Dupl.)
WS-6029-060210-017	Surface Water - South & East Ditches
WS-6029-060210-018	Surface Water - South & East Ditches (Dupl.)
SE-6029-060210-019	Sediment South & East Ditches
TB-6029-060210	Trip Blank

TABLE 2

SUMMARY OF ANALYTICAL METHODS
JUNE 2010 ANNUAL MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*[1]
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270C

[1] Method references:
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd Edition with Updates I through IIIB.

TABLE 3

SUMMARY OF SAMPLE DATA QUALIFIED FOR VIOLATION OF MATRIX SPIKE/MATRIX SPIKE DUPLICATE ACCEPTANCE CRITERIA JUNE 2010 ANNUAL MONITORING EVENT SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

Analyte	*Associated Samples*	*Qualifier*[1]
4,6-Dinitro-2-methylphenol	WS-6029-060210-017	UJ
	WS-6029-060210-018	UJ
Pentachlorophenol	WS-6029-060210-017	UJ
	WS-6029-060210-018	UJ

[1] The sample results are qualified as:
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4

SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLES
JUNE 2010 ANNUAL MONITORING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

Analyte	*Investigative Sample WG-6029-060210-005*	*Duplicate Sample WG-6029-060210-006*	*RPD*[1]
Acetone	9.6	9.1	5.3

Analyte	*Investigative Sample WS-6029-060210-017*	*Duplicate Sample WS-6029-060210-018*	*RPD*
Acetone	7.3	6.7	8.6
cis-1,2-Dichloroethene	ND (1.0)[2]	0.28 J[3]	NC[4]
1,2-Dichloroethene (total	ND (1.0)	0.28 J	NC

[1] RPD - Relative Percent Difference
[2] ND ( ) - Not detected at associated value
[3] J - Estimated concentration
[4] NC - Not Calculable

ATTACHMENT D

GROUNDWATER CONTOURS

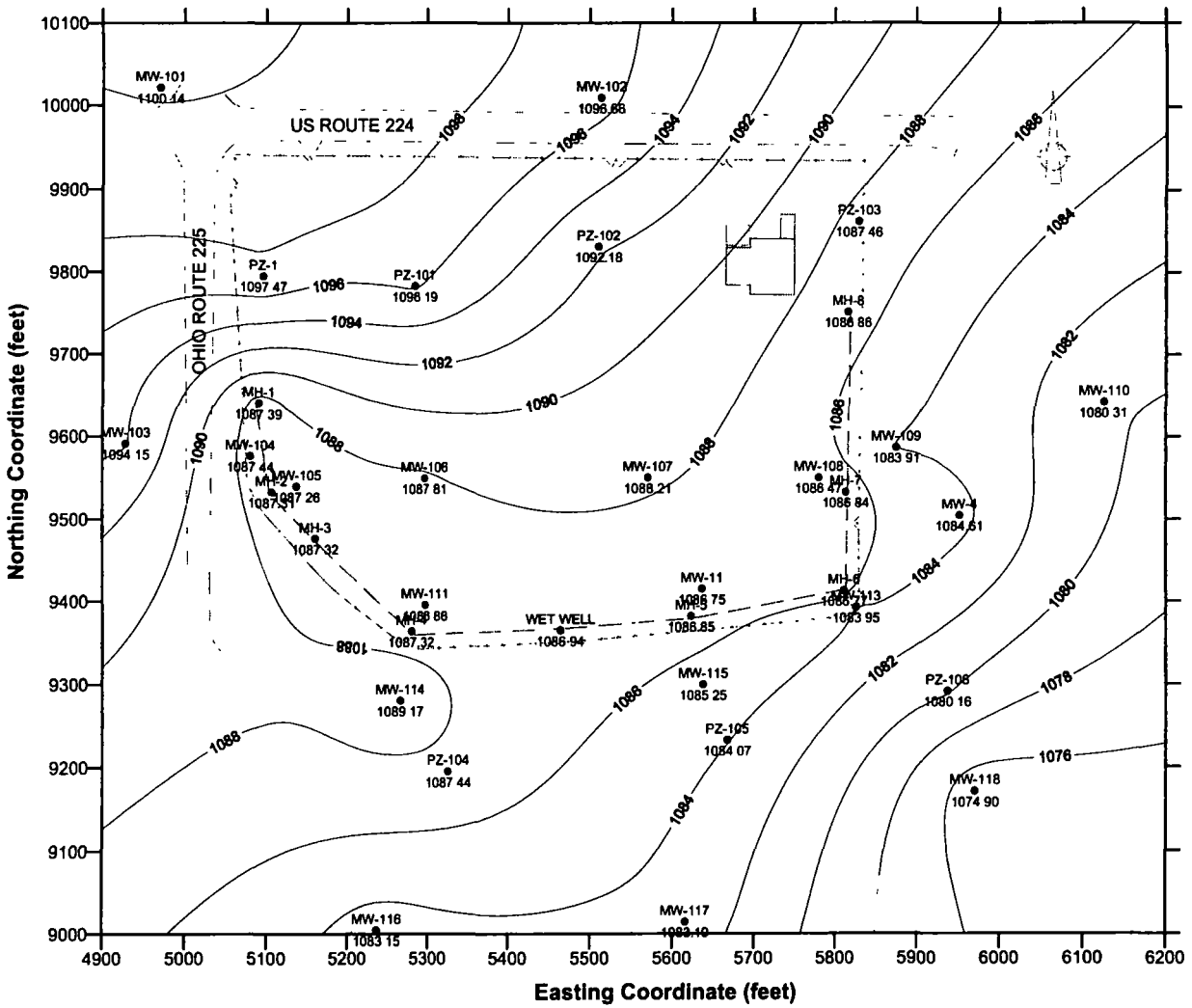


figure D.1
GROUNDWATER CONTOURS
WATER TABLE UNIT -- JUNE 2,2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (WILL064) JUNE 2, 2010 (PHX) REV.0 (I:\pho\6029\6029-50\surfer\contours\wtu\WATER TABLE UNIT 2010-06-02.srf)

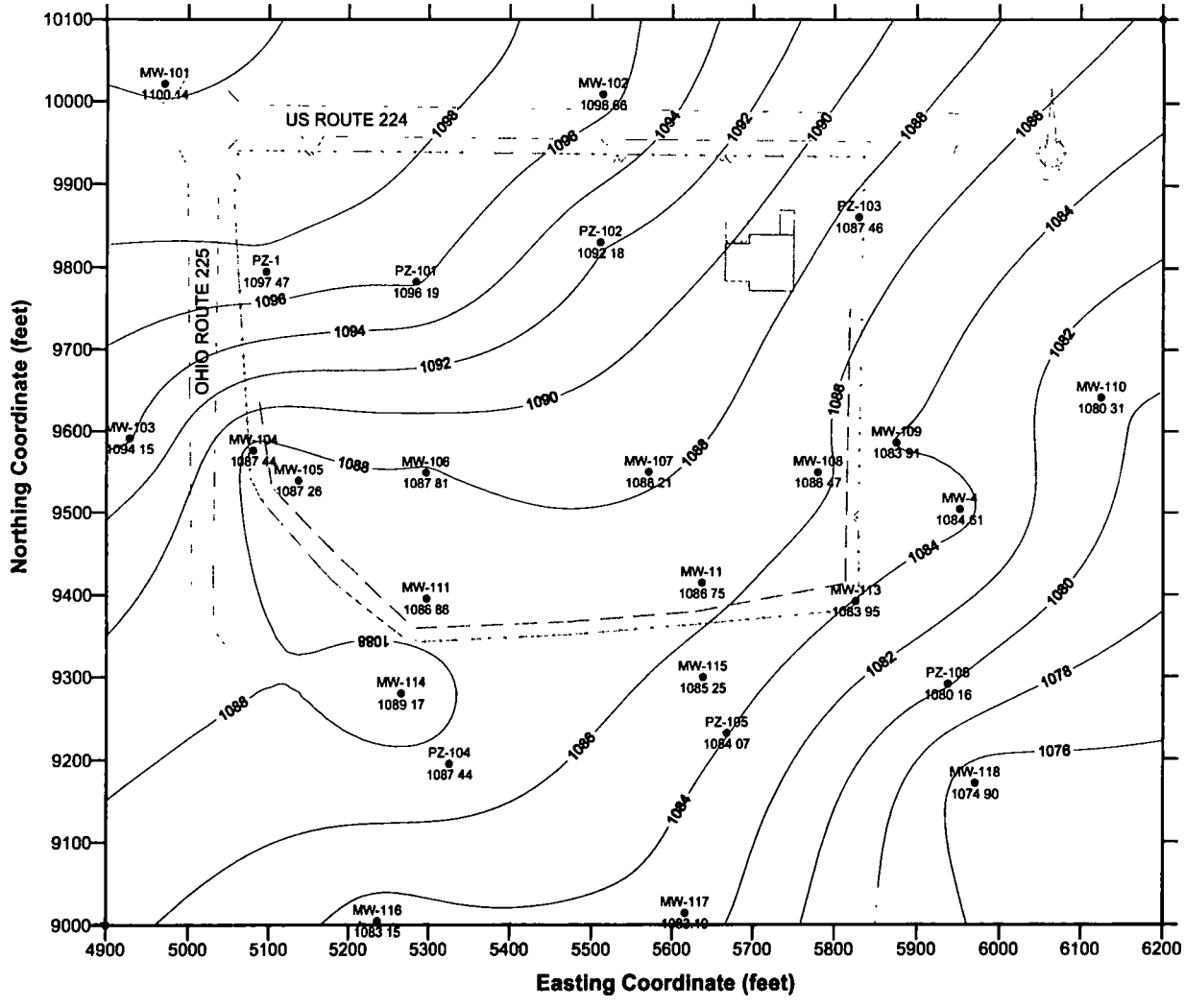


figure D.2
GROUNDWATER CONTOURS
WATER TABLE UNIT (w/o MANHOLES) -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (Will064) JUNE 2, 2010 (PHX) REV.0 (i:\pho\6029\6029-50\surfer\contours\wtu\WATER TABLE UNIT - WITHOUT - 2010-06-02.srf)

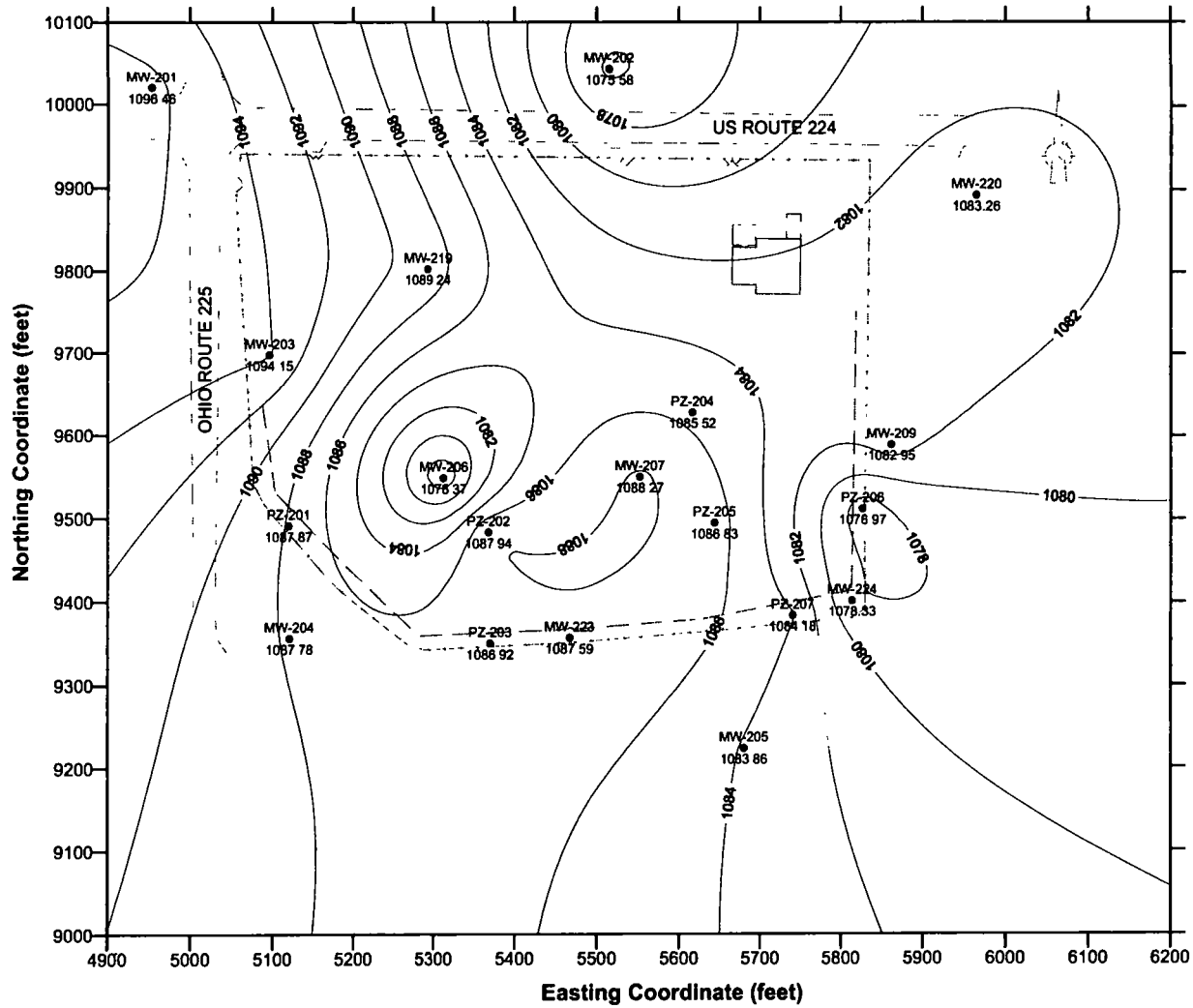


figure D.3
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (WILL064) JUNE 2,2010 (PHX) REV.0 (i:\pho\6029\6029-50\surfer\contours\uiu\UPPER INTERMEDIATE UNIT - 2010-06-02.srf)

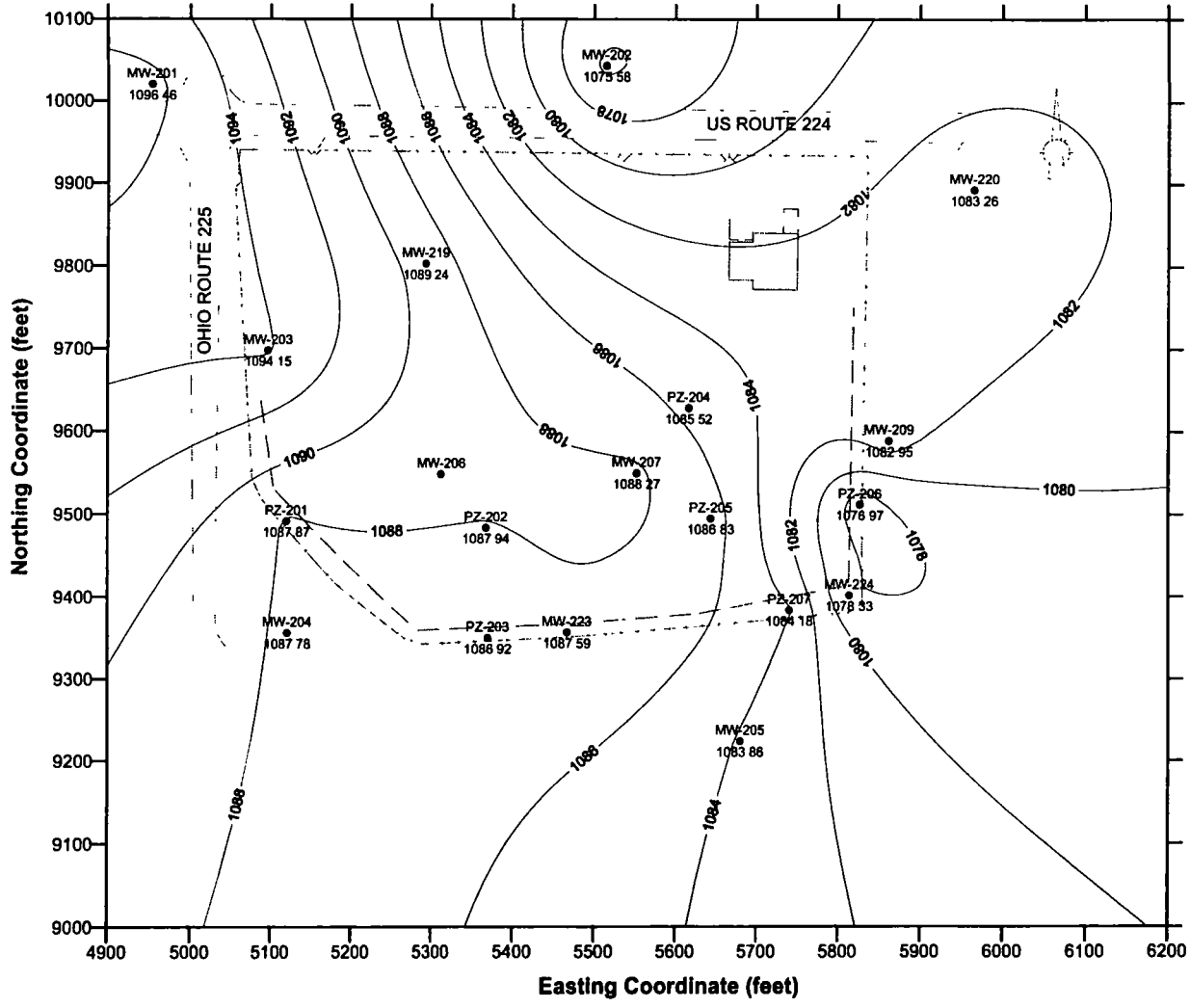


figure D.4
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT (w/o MW-206) -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (Will064) JUNE 2, 2010 (WA) REV.0 (i \pho\6029\6029-50\surfer\contours\uiu\UPPER INTERMEDIATE UNIT - WITHOUT - 2010-06-02.srf)

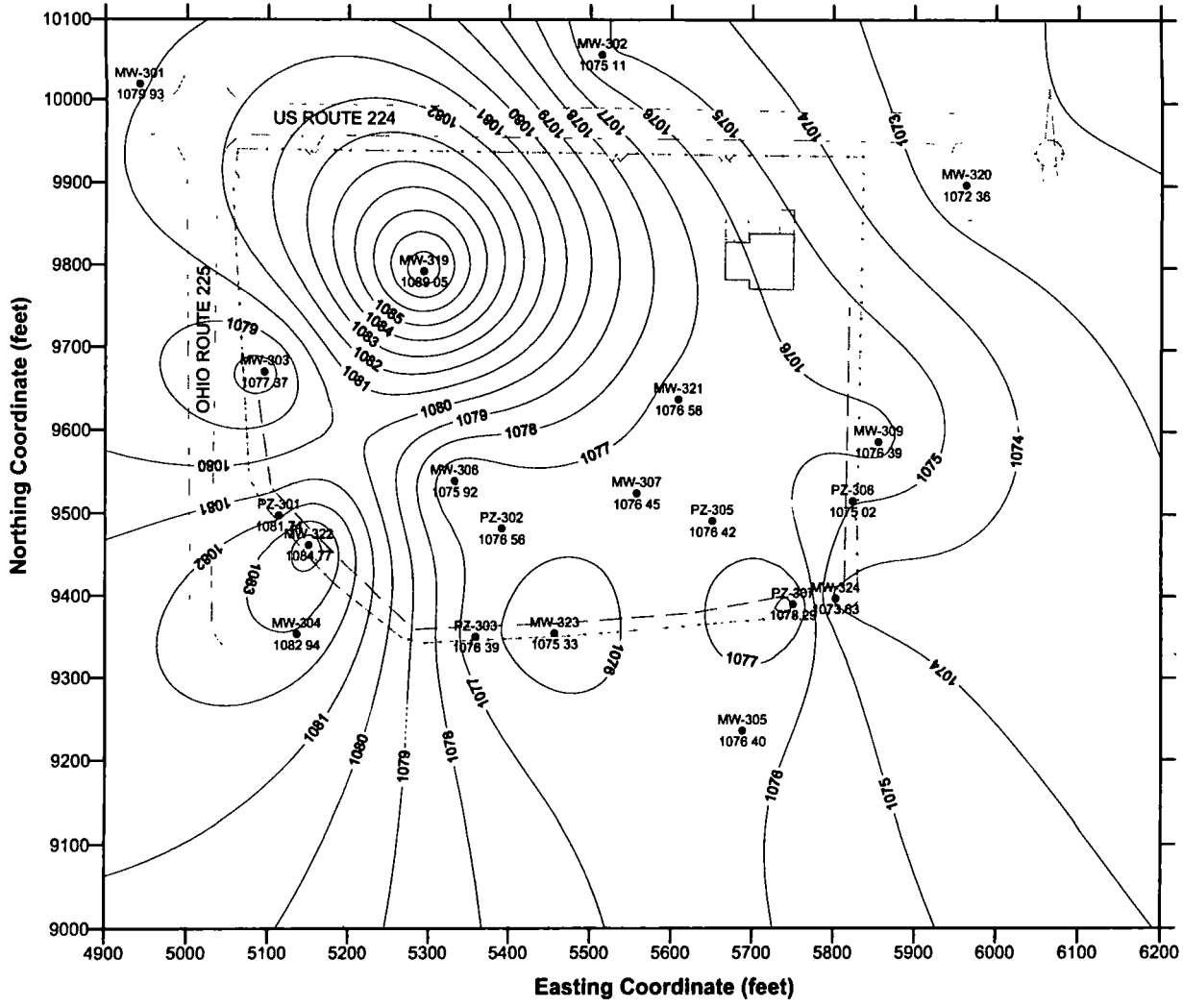


figure D.5
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (WILL064) JUNE 2,2010 (PHX) REV.0 (i:\pho\6029\6029-50\surfer\contours\lu\LOWER INTERMEDIATE UNIT - 2010-06-02.srf)

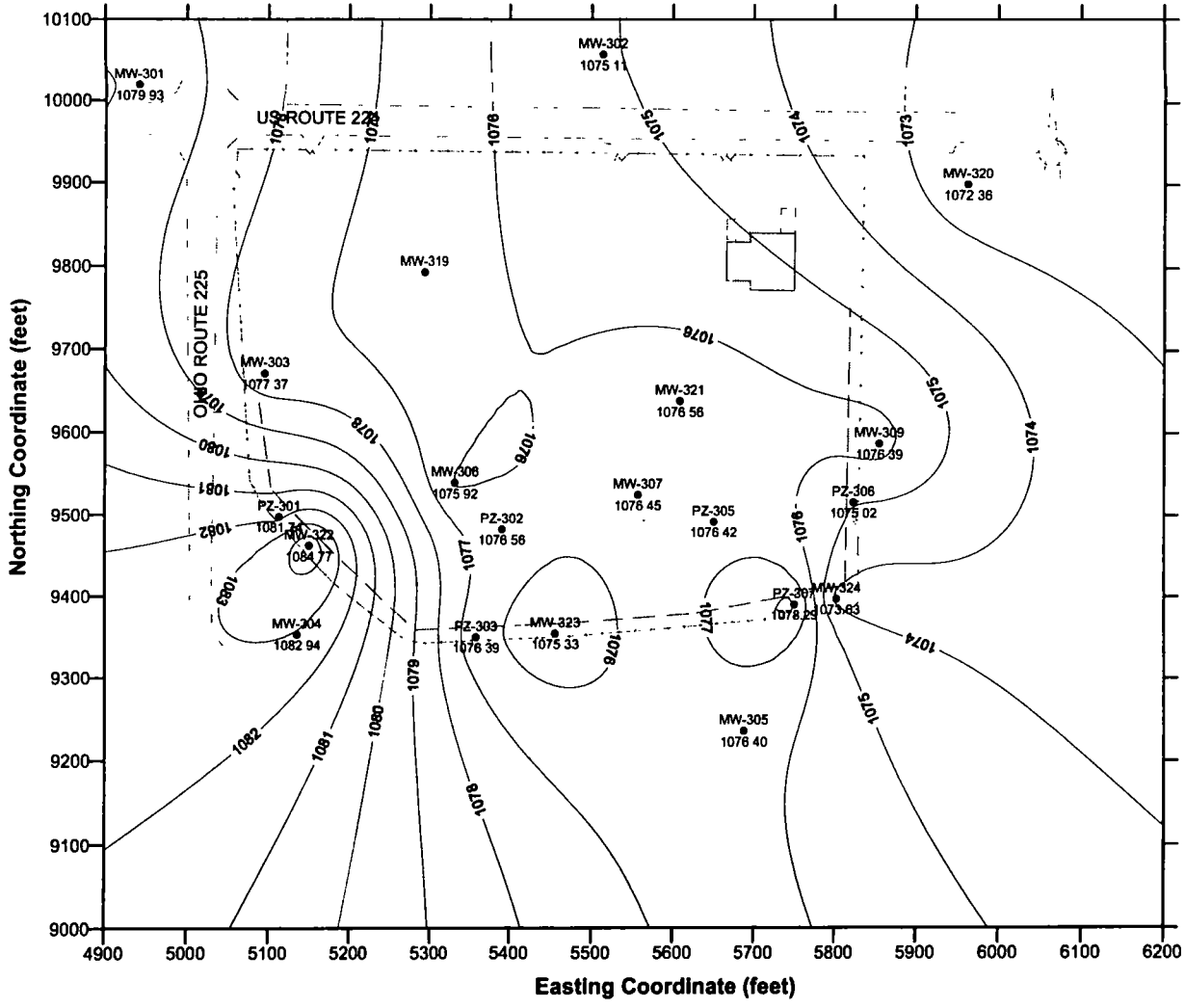


figure D.6
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT - (w/o MW-319) -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (Will064) JUNE 2,2010 (PHX) REV 0 (i \pho\6029\6029-50\surfer\contours\liu\LOWER INTERMEDIATE UNIT - WITHOUT- 2010-06-02.srf)

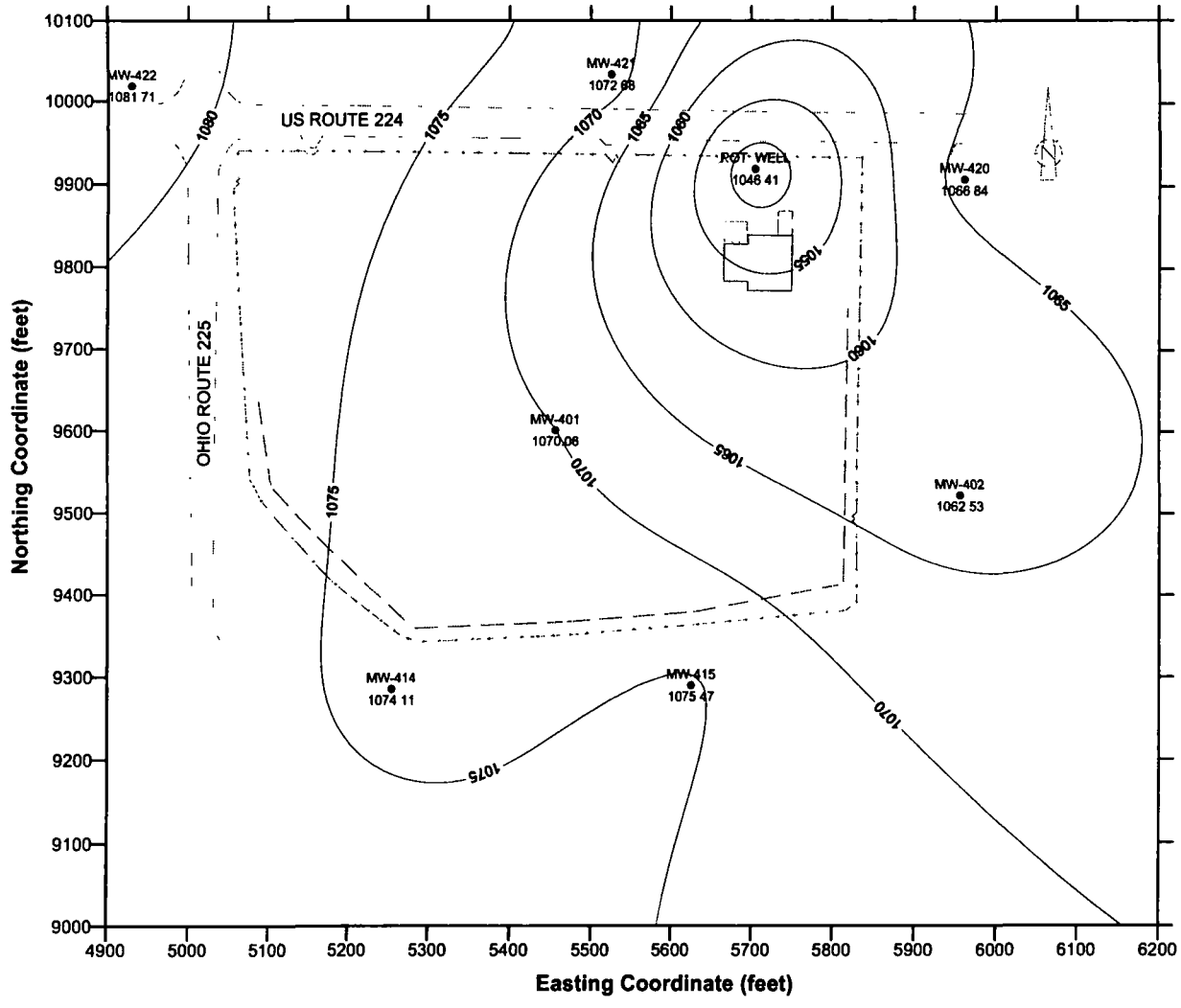


figure D.7
GROUNDWATER CONTOURS
UPPER SHARON UNIT -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (WILL064) JUN 2, 2010 (PHX) REV.0 (i:\pho\6029\6029-50\surfer\contours\usu\UPPER SHARRON UNIT - 2010-06-02.srf)

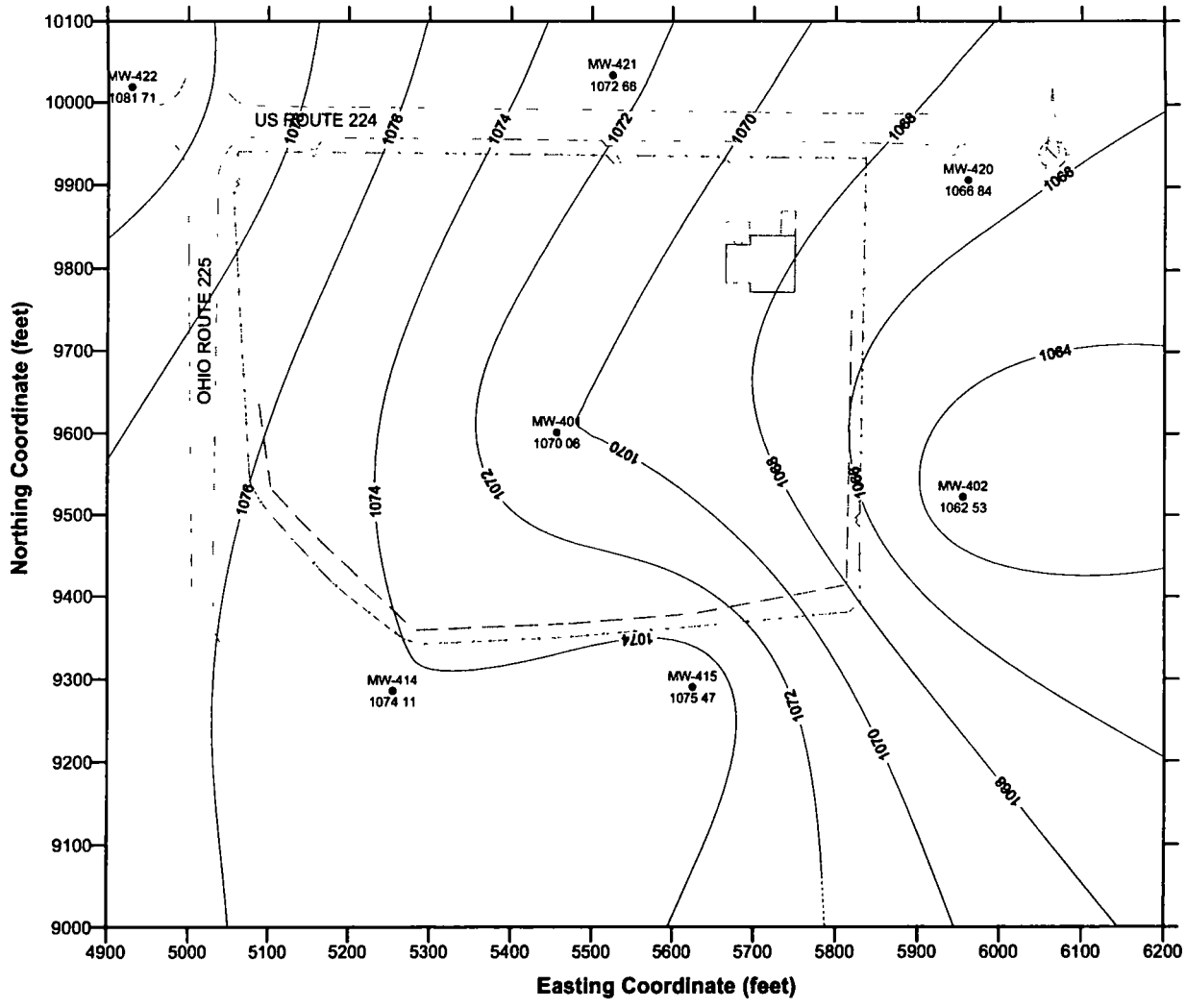


figure D.8
GROUNDWATER CONTOURS
UPPER SHARON UNIT (w/o POTABLE WELL) -- JUNE 2, 2010
SUMMIT NATIONAL SUPERFUND SITE
Deerfield, Ohio

6029 (WILL064) JUNE 2, 2010 (PHX) REV.0 (i:\phro\6029\6029-50\surfer\contours\usu\UPPER SHARRON UNIT - WITHOUT - 2010-06-02.srf)

TABLE D.1

GROUNDWATER LEVEL DATA SUMMARY
NOVEMBER 2005 TO JUNE 2010
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Well	*Reference Elevation*	*Depth To Water 28-Nov-05*	*Calculated Groundwater Elevation 28-Nov-05*	*Depth To Water 20-Feb-06*	*Calculated Groundwater Elevation 20-Feb-06*	*Depth To Water 30-May-06*	*Calculated Groundwater Elevation 30-May-06*	*Depth To Water 14-Aug-06*	*Calculated Groundwater Elevation 14-Aug-06*	*Depth To Water 20-Dec-06*	*Calculated Groundwater Elevation 20-Dec-06*	*Depth To Water 25-May-07*	*Calculated Groundwater Elevation 25-May-07*	*Depth To Water 12-Nov-07*	*Calculated Groundwater Elevation 12-Nov-07*	*Depth To Water 15-Apr-08*	*Calculated Groundwater Elevation 15-Apr-08*	*Depth To Water 4-Nov-08*	*Calculated Groundwater Elevation 4-Nov-08*	*Depth To Water 20-Apr-09*	*Calculated Groundwater Elevation 20-Apr-09*	*Depth To Water 2-Jun-10*	*Calculated Groundwater Elevation 2-Jun-10*
Water Table Unit Wells																							
MW-4	1,091 09	6 94	1,084 15	6 24	1,084 85	6 62	1,084 47	7 55	1,083 54	6 55	1,084 54	7 36	1,083 73	8.47	1,082 62	6.31	1,084 78	8 57	1,082.52	6 22	1,084 87	6.48	1,084 61
MW-11	1,095 93	9 92	1,086 01	9 49	1,086 44	9.57	1,086 36	10 1	1,085 83	9.43	1,086 50	9 87	1,086 06	10 29	1,085 64	9 08	1,086 85	10 41	1,085 52	9 12	1,086 81	9 18	1,086 75
MW-101	1,107 57	8.51	1,099 06	7 75	1,099 82	7.85	1,099 72	8.61	1,098 96	7 81	1,099 76	8 51	1,099.06	9 04	1,098 53	7 43	1,100 14	9 51	1,098 06	7 48	1,100 09	7 43	1,100 14
MW-102	1,100.17	4.72	1,095 45	4.04	1,096 13	4 04	1,096.13	4.58	1,095 59	4 02	1,096 15	4.71	1,095.46	5 36	1,094 81	3 70	1,096 47	5 79	1,094 38	3 47	1,096 70	3 51	1,096 66
MW-103	1,096 22	2.35	1,093 87	2.31	1,093 91	2.52	1,093 70	3 38	1,092 84	2 40	1,093 82	2 89	1,093 33	2 94	1,093 28	2.00	1,094 22	3 16	1,093 06	1 78	1,094 44	2 07	1,094 15
MW-104	1,099 81	13.38	1,086 43	12 82	1,086 99	12.91	1,086 90	13 51	1,086 30	12 44	1,087 37	13.23	1,086.58	13 69	1,086 12	12.21	1,087 60	13 94	1,085 87	12.40	1,087.41	12.37	1,087 44
MW-105	1,101 32	14.98	1,086.34	14 40	1,086.92	14.30	1,087 02	15 08	1,086 24	14.29	1,087 03	14.89	1,086.43	15 34	1,085 98	13 92	1,087.40	15 61	1,085 71	14 03	1,087.29	14 06	1,087.26
MW-106	1,102.88	16 04	1,086.84	15.28	1,087.60	15 37	1,087 51	16 06	1,086.82	15.36	1,087.52	15 91	1,086.97	16 51	1,086 37	14 81	1,088 07	16 83	1,086 05	14.91	1,087 97	15 07	1,087 81
MW-107	1,098.27	10 94	1,087.33	9 96	1,088 31	10.06	1,088 21	10 64	1,087.63	9 98	1,088.29	10 91	1,087 36	11 63	1,086 64	9.64	1,088 63	12 21	1,086 06	9 77	1,088.50	10 06	1,088 21
MW-108	1,091.96	5.98	1,085.98	5 90	1,086.06	5 85	1,086 11	6.23	1,085.73	5.83	1,086.13	6 30	1,085 66	6.42	1,085 54	5 48	1,086.48	6.54	1,085 42	5.39	1,086 57	5 49	1,086 47
MW-109	1,087.42	3.92	1,083.50	3.24	1,084 18	3 54	1,083 88	4.42	1,083.00	3.54	1,083 88	4.34	1,083 08	5 69	1,081 73	3 09	1,084.33	6 35	1,081 07	2 93	1,084 49	3 51	1,083 91
MW-110	1,086 87	10.75	1,076 12	6 68	1,080.19	7 13	1,079 74	10 28	1,076 59	7.03	1,079 84	8.37	1,078 50	11 51	1,075 36	5 66	1,081.21	12 26	1,074 61	5 83	1,081.04	6 56	1,080 31
MW-111	1,099 67	13.57	1,086.10	13 10	1,086.57	13.18	1,086.49	13.75	1,085 92	13 16	1,086 51	13.52	1,086 15	13 91	1,085 76	12 72	1,086 95	14 12	1,085 55	12.76	1,086 91	12 81	1,086 86
MW-113	1,088 46	6 61	1,081 85	5.42	1,083 04	5 88	1,082 58	7 22	1,081 24	5 53	1,082 93	6 39	1,082 07	7 66	1,080 80	4 02	1,084.44	7 92	1,080 54	4.96	1,083.50	4 51	1,083 95
MW-114	1,097.27	9 24	1,088.03	8.93	1,088 34	8 84	1,088 43	9 94	1,087 33	8 82	1,088 45	9.39	1,087 88	9.63	1,087 64	8 28	1,088.99	10 11	1,087 16	8 09	1,089 18	8 10	1,089 17
MW-115	1,101.83	17 55	1,084.28	17 16	1,084 67	17 20	1,084 63	17.70	1,084 13	17 12	1,084 71	17 36	1,084 47	17 80	1,084 03	16.60	1,085 23	17.93	1,083 90	16 63	1,085.20	16.58	1,085 25
MW-116	1,105 54	23 58	1,081.96	23 13	1,082.41	23.02	1,082 52	22.96	1,082 58	22 98	1,082 56	23 26	1,082 28	23 88	1,081 66	21 92	1,083 62	24 46	1,081 08	22.14	1,083 40	22.39	1,083 15
MW-117	1,123 97	44 25	1,079.72	41.95	1,082 02	42.74	1,081 23	45 32	1,078 65	41.81	1,082.16	42 94	1,081 03	46 16	1,077 81	40.29	1,083 68	47 92	1,076 05	40.83	1,083.14	40.78	1,083 19
MW-118	1,098 38	25.05	1,073.33	23.96	1,074 42	23.47	1,074 91	25 06	1,073 32	23.44	1,074 94	24 11	1,074 27	26 21	1,072 17	23 13	1,075 25	27 51	1,070 87	23 43	1,074 95	23 48	1,074 90
PZ-1	1,104 43	8.28	1,096 15	7 52	1,096 91	7.63	1,096 80	8 09	1,096.34	7.60	1,096.83	8.32	1,096.11	8.88	1,095 55	6 91	1,097 52	9 27	1,095 16	6 61	1,097 82	6 96	1,097 47
PZ-101	1,108 53	13.62	1,094 91	12 74	1,095.79	12 85	1,095 68	13 37	1,095 16	12 77	1,095 76	13.46	1,095 07	14.13	1,094 40	12 35	1,096 18	14 51	1,094 02	12 22	1,096 31	12 34	1,096 19
PZ-102	1,100.21	9 18	1,091.03	8.35	1,091 86	8.27	1,091 94	8 83	1,091 38	8 29	1,091 92	9 02	1,091.19	9 92	1,090 29	7 92	1,092 29	10 36	1,089 85	7 92	1,092 29	8 03	1,092 18
PZ-103	1,093.98	6 62	1,087.36	6 00	1,087 98	6.40	1,087 58	7 14	1,086 84	6 34	1,087 64	7 16	1,086 82	8 75	1,085 23	6 35	1,087 63	9 43	1,084 55	6 12	1,087 86	6.52	1,087 46
PZ-104	1,097 54	11 50	1,086 04	10 57	1,086 97	10 55	1,086 99	11 81	1,085.73	10.43	1,087.11	11.62	1,085.92	12.43	1,085 11	10 03	1,087 51	13.37	1,084 17	10 06	1,087 48	10 10	1,087 44
PZ-105	1,101 60	20.26	1,081 34	18 51	1,083 09	18 88	1,082.72	20 91	1,080 69	18 90	1,082 70	19.38	1,082 22	21.65	1,079.95	17 22	1,084 38	23 11	1,078 49	17 56	1,084 04	17 53	1,084 07
PZ-106	1,102 23	25 03	1,077.20	23 01	1,079 22	22 78	1,079.45	23 86	1,078.37	22.69	1,079.54	23 04	1,079.19	25 41	1,076 82	21 48	1,080.75	26 91	1,075 32	22 14	1,080.09	22 07	1,080 16
Upper Intermediate Unit Wells																							
MW-201	1,107.52	12 38	1,095.14	11 81	1,095 71	12.22	1,095.30	12.54	1,094.98	12 17	1,095.35	12 64	1,094.88	12.52	1,095.00	10.72	1,096 80	12 78	1,094 74	11 21	1,096 31	11.06	1,096.46
MW-202	1,099 50	28 49	1,071.01	26 07	1,073 43	25 22	1,074 28	28 10	1,071 40	25 19	1,074 31	27 50	1,072 00	26 91	1,072 59	23 00	1,076.50	28 61	1,070 89	23 27	1,076.23	23 92	1,075.58
MW-203	1,103 35	10 32	1,093.03	9.59	1,093 76	9.72	1,093 63	10 22	1,093 13	9 66	1,093.69	10 79	1,092.56	10 68	1,092 67	8 73	1,094.62	10 91	1,092 44	9 32	1,094.03	9 20	1,094.15
MW-204	1,098.01	11.94	1,086 07	10 70	1,087 31	11 01	1,087 00	11 71	1,086 30	10 94	1,087 07	12.19	1,085 82	12 12	1,085 89	9 45	1,088 56	12 82	1,085 19	10 24	1,087.77	10 23	1,087 78
MW-205	1,100 90	19 77	1,081 13	18 08	1,082 82	18 35	1,082 55	20 42	1,080 48	18.03	1,082 87	18 84	1,082.06	21 22	1,079 68	16 68	1,084 22	22 79	1,078 11	17 08	1,083 82	17 04	1,083 86
MW-206	1,103.22	30.66	1,072 56	28.52	1,074.70	28 72	1,074 50	35 22	1,068 00	28 68	1,074 54	31 71	1,071.51	31 09	1,072 13	25 32	1,077 90	32 97	1,070 25			26 85	1,076 37
MW-207	1,098.51	11 19	1,087 32	10.33	1,088 18	10 35	1,088 16	10 92	1,087 59	10.31	1,088 20	11 09	1,087.42	11 74	1,086 77	9 86	1,088 65	12 13	1,086 38	10 02	1,088 49	10 24	1,088 27
MW-209	1,087 66	5 78	1,081 88	4 50	1,083 16	5 36	1,082.30	5 59	1,082 07	5 12	1,082 54	6 73	1,080.93	5 40	1,082 26	4 25	1,083 41	5 72	1,081 94	4 46	1,083 20	4 71	1,082 95
MW-219	1,108 24	20 44	1,087 80	19 34	1,088.90	19 10	1,089.14	20 58	1,087.66	19 08	1,089 16	21 62	1,086 62	20 31	1,087 93	18 23	1,090 01	20 68	1,087 56	19.13	1,089 11	19 00	1,089 24
MW-220	1,090 92	7 88	1,083 04	7.19	1,083 73	7.83	1,083.09	8 16	1,082 76	7 44	1,083 48	8.04	1,082 88	8 54	1,082 38	7 51	1,083 41	9.05	1,081.87	7 70	1,083 22	7 66	1,083 26
MW-223	1,098 37	12 29	1,086 08	11.55	1,086 82	12 07	1,086 30	12.21	1,086 16	11 99	1,086.38	11 46	1,086 91	11 82	1,086.55	10.68	1,087 69	12 03	1,086 34	10 84	1,087 53	10 78	1,087 59
MW-224	1,089 41	13 48	1,075 93	11.46	1,077 95	12 14	1,077 27	13.42	1,075 99	12 02	1,077 39	13 07	1,076 34	14.30	1,075.11	10.34	1,079 07	15 58	1,073 83	10 77	1,078 64	11.08	1,078 33
PZ-201	1,099.74	12 83	1,086 91	12 20	1,087 54	12 28	1,087 46	12 94	1,086 80	12 31	1,087 43	12 76	1,086 98	13 18	1,086 56	11 70	1,088 04	13 46	1,086.28	11 79	1,087.95	11.87	1,087 87
PZ-202	1,101 56	14.57	1,086.99	13 70	1,087.86	13 78	1,087 78	14 42	1,087 14	13.71	1,087.85	14 44	1,087 12	15 05	1,086 51	13 27	1,088 29	15 43	1,086.13	13 46	1,088.10	13 62	1,087.94
PZ-203	1,098 31	12.24	1,086 07	11 74	1,086 57	11 92	1,086 39	12.46	1,085 85	11 92	1,086 39	12 13	1,086 18	12 56	1,085 75	11.27	1,087 04	12 83	1,085 48	11 32	1,086.99	11 39	1,086 92
PZ-204	1,095.41	11 30	1,084 11	9 90	1,085.51	9 83	1,085.58	10 81	1,084 60	9 77	1,085 64	11 57	1,083.84	11.31	1,084 10	9.00	1,086.41	11 83	1,083 58	9 64	1,085 77	9.89	1,085 52
PZ-205	1,096 63	10 33	1,086 30	9 97	1,086 66	10.58	1,086 05	10 60	1,086 03	10.28	1,086 35	10.57	1,086 06	10 91	1,085 72	9 64	1,086 99	11 07	1,085 56	9 62	1,087 01	9.80	1,086 83
PZ-206	1,088 05	13 41	1,074 64	11 44	1,076.61	12 04	1,076 01	13 40	1,074 65	11 93	1,076 12	13 10	1,074.95	14 37	1,073 68	10 33	1,077.72	15.58	1,072 47	10 72	1,077 33	11 08	1,076 97
PZ-207	1,091 36	9.76	1,081.60	8 36	1,083 00	8 85	1,082 51	10 44	1,080 92	8 44	1,082 92	9.02	1,082 34	10.50	1,080 86	6 97	1,084.39	10 96	1,080 40	7 41	1,083 95	7 18	1,084 18